# Appendix A

## Initial Study/ Notice of Preparation and IS/NOP Scoping Meeting Comments and Commenter Letters

ESA

# A.1 Initial Study/ Notice of Preparation

ESA

# NOTICE OF PREPARATION OF ENVIRONMENTAL IMPACT REPORT AND NOTICE OF PUBLIC COMMENT PERIOD FOR REMEDIAL ACTION WORKPLAN

**TO:** Agencies, Organizations and Interested Parties

**PROJECT TITLE:** San Pedro High School Comprehensive Modernization Project

**SUBJECT:** Notice of Preparation of a Draft Environmental Impact Report in Compliance with Title 14, Section 15082(a), 15103, and 15375 of the California Code of Regulations and Notice of Public Comment Period for Removal Action Workplan

**Notice is hereby given** that the Los Angeles Unified School District (LAUSD) is the Lead Agency under the California Environmental Quality Act (CEQA) in the preparation of the Environmental Impact Report (EIR) for the San Pedro High School Comprehensive Modernization Project. The Lead Agency has prepared this Notice of Preparation (NOP) for the EIR in order to provide the widest exposure and opportunity for input from public agencies, stakeholders, organizations, and individuals on the scope of the environmental analysis addressing the potential effects of the proposed project. Notice is further given that a Removal Action Workplan (RAW) has been prepared and is available for review for the Project.

**PROJECT LOCATION:** The 22.9-acre San Pedro HS campus is located at 1001 West 15th Street, San Pedro, Los Angeles County, California.

**PROJECT DESCRIPTION:** The proposed Project would include renovations, modernizations, and new construction at San Pedro HS; including demolition of the Industrial Arts Building, Metal Shop Building, and Lunch Shelter/Food Service Building, and approximately 17 classrooms located in nine portable (relocatable) buildings. The Project would include the construction of a Band and Shop Building, Lunch Shelters, and a new Administration, Food Services, and Classroom Building. The new buildings would house approximately 14 new general and specialty classrooms, and support spaces. The Project includes modifications and/or upgrades to the existing Administration Building, the Physical Education Building (Old Gym), the Home Economics Building, and Classroom Building 1. Upon Project completion, San Pedro HS would have 74 classrooms including 25 existing classrooms, 35 remodeled classrooms, and 14 new classrooms.

In addition, the District proposes the removal and off-site disposal of approximately 226 cubic yards of soil with elevated concentrations of arsenic, lead, and/or organochlorine pesticides and replacement with clean fill.

**POTENTIAL ENVIRONMENTAL EFFECTS:** LAUSD has prepared an Initial Study that describes the potential environmental effects of the proposed project. Based on the conclusions of the Initial Study, it has been determined that an EIR is the appropriate level of environmental documentation. Environmental factors that will be analyzed in the EIR are: Air Quality, Cultural Resources, Greenhouse Gases, and Noise.

The RAW presents the findings of the site assessment investigations performed for this Project and outlines the proposed process for the removal and off-site disposal of the impacted soil.

**PUBLIC REVIEW PERIOD:** LAUSD will make this NOP and the Initial Study (pursuant to California Code of Regulations, Title 14, Section 15082(b)) available for public review and comment from September 29, 2017 to October 28, 2017. The RAW will be available for public review and comment from September 19, 2017 to October 18, 2017.

**RESPONSES AND COMMENTS:** Please indicate a contact person for your agency or organization and send your comments to:

**CEQA Questions and Comments**
Los Angeles Unified School District
Office of Environmental Health and Safety
Attention: Will Meade, Environmental Planning Specialist
333 South Beaudry Avenue, 21st Floor
Los Angeles, CA 90017
Email: CEQA-comments@lausd.net
*Please include "SPHS Comp Mod" in the subject line*

**RAW Questions and Comments**
Los Angeles Unified School District
Office of Environmental Health and Safety
Attention: Dane Robinson, Site Assessment Project Manager
333 South Beaudry Avenue, 21st Floor
Los Angeles, CA 90017
Email: dane.robinson@lausd.net
Phone: (213) 241-4122

**SCOPING MEETING:** LAUSD will hold a public meeting on **October 3, 2017** at **6:00 PM** at the San Pedro High School Auditorium located at 1001 W. 15th St. San Pedro, California. You are encouraged to attend and present environmental information that you believe should be addressed in the EIR.

**DOCUMENT AVAILABILITY:** The Initial Study and RAW are available for public review during regular business hours at the locations listed below.

- LAUSD, Office of Environmental Health and Safety, 333 South Beaudry Avenue, 21st Floor, Los Angeles, CA 90017 (by appointment, call 213.241.3199)
- San Pedro High School Library: 1001 West 15th Street, San Pedro, CA
- San Pedro Regional Branch Library: 931 S. Gaffey Street, San Pedro, CA 90731
- LAUSD Local District South Office, 1208 Magnolia Avenue, Gardena, CA 90247
- LAUSD Office of Environmental Health and Safety Website:
  - CEQA Initial Study (http://achieve.lausd.net/ceqa)
  - RAW (http://achieve.lausd.net/siteassessment)

ORIGINAL FILED
SEP 29 2017
LOS ANGELES, COUNTY CLERK

# AVISO DE PREPARACIÓN
# DE INFORME DE IMPACTO AMBIENTAL
# AVISO DE PERIODO DE COMENTARIOS PÚBLICOS PARA
# EL PLAN DE TRABAJO DE ACCION CORRECTIVA

**PARA:** Agencias, Organizaciones y Partes Interesadas

**TITULO DEL PROYECTO:** Proyecto de Modernización Extensa de la Escuela Preparatoria San Pedro

**TEMA:** Aviso de Preparación de un Borrador de Informe de Impacto Ambiental en cumplimiento con las Secciones 15082(a), 15103, y 15375 del Título 14 del Código de Regulaciones de California y aviso de periodo de comentarios públicos para el plan de trabajo de acción correctiva.

**Por el presente se da aviso** que el Distrito Escolar Unificado de Los Ángeles, (LAUSD, por sus siglas en inglés) es la agencia líder bajo la ley de la Calidad Ambiental de California (CEQA, por sus siglas en inglés) en la preparación del Borrador del Informe de Impacto Ambiental (EIR, por sus siglas en inglés), para el Proyecto de Modernización Extensa de la Escuela Preparatoria San Pedro. La Agencia Líder ha preparado este Aviso de Preparación (NOP, por sus siglas en inglés) para el EIR, con el fin de proporcionar la más amplia atención y oportunidad posible de aportaciones de agencias públicas, partes interesadas, organizaciones e individuos sobre el alcance del análisis ambiental que trata los efectos potenciales del proyecto propuesto. Además se da aviso que un Plan de Trabajo de Acción de Remoción (RAW, por sus siglas en ingles) se ha preparado y esta disponible para repaso para el Proyecto.

**UBICACIÓN DEL PROYECTO:** El campus de 22.9 acres de la Escuela Preparatoria San Pedro está ubicado en 1001 West Street, San Pedro, Condado de Los Ángeles, California.

**DESCRIPCIÓN DEL PROYECTO:** El Proyecto Propuesto incluiría renovaciones, modernizaciones, y nuevas construcciones en la Escuela Preparatoria San Pedro; incluyendo la demolición del edificio de Artes Industriales, el Edificio del Taller de Metales, y el edificio de Refugio de Almuerzo/Edificio de Servicio de Alimentos, y aproximadamente 17 aulas ubicadas en nueve edificios portátiles (reubicables). El Proyecto incluiría la construcción de un edificio de Banda y Taller, Refugios para Comer, y un nuevo edificio de Administración, Servicio de Alimentos, y de Aulas. Los nuevos edificios tendrían aproximadamente 14 aulas nuevas de uso general y de especialidad, y espacios de apoyo. El Proyecto incluye modificaciones y/o mejoras al Edificio de Administración, el Edificio de Educación Física (el Gimnasio Viejo), el Edificio de Economía Doméstica, y el Edificio 1 de Aulas. Una vez que se complete la modernización, la Escuela Preparatoria San Pedro tendrá 74 aulas incluyendo 25 aulas existentes, 35 aulas remodeladas y 14 aulas nuevas.

Además, el Distrito propone la remoción y desecho fuera del sitio de aproximadamente 226 yardas cúbicas de suelo con concentraciones elevadas de arsénico, plomo, y/o pesticidas organoclorados y reemplazo con relleno limpio.

**POSIBLES EFECTOS AMBIENTALES:** El LAUSD ha preparado un Estudio Inicial que describe los posibles efectos ambientales del proyecto propuesto. En base a las conclusiones del Estudio Inicial se ha determinado que un EIR es el nivel apropiado de documentación ambiental. Los factores ambientales que serán analizados en el EIR son: Calidad del Aire, Recursos Culturales, Gases de Efecto Invernadero, y Ruido.

El RAW presenta los hallazgos de las investigaciones de evaluación del sitio realizadas para este Proyecto y esboza el proceso propuesto para la remoción y desecho fuera del sitio del suelo impactado.

**PERIODO DE REVISIÓN PÚBLICA:** El LAUSD hará este NOP y el Estudio Inicial (de acuerdo con la Sección 15082 (b) del Título 14 del Código de Regulaciones de California) disponible al público para su revisión y comentario desde el 29 de septiembre de 2017 hasta el 28 de octubre de 2017. El RAW estará disponible para revisión y comentarios públicos del 19 de septiembre de 2017 hasta el 18 de octubre de 2017.

**RESPUESTAS Y COMENTARIOS:** Por favor indique una persona de contacto para su agencia u organización y envíe sus respuestas y comentarios a:

**Preguntas y Comentarios CEQA**
Los Angeles Unified School District
Office of Environmental Health & Safety
Attention: Will Meade, Environmental Planning Specialist
333 South Beaudry Avenue, 21st Floor
Los Angeles, CA 90017
Email: CEQA-comments@lausd.net
Por favor incluya "SPHS Comp Mod" en el renglón de tema

**Preguntas y Comentarios RAW**
Los Angeles Unified School District
Office of Environmental Health and Safety
Attention: Dane Robinson, Site Assessment Project Manager
333 South Beaudry Avenue, 21st Floor
Los Angeles, CA 90017
Email: dane.robinson@lausd.net
Teléfono; (213) 241-4122

**REUNIÓN DE DETERMINACIÓN DE ALCANCE:** El LAUSD llevará a cabo una reunión de determinación de alcance el **3 de octubre de 2017**, a las **6:00 PM** en el Auditorio de la Escuela Preparatoria San Pedro ubicada en 1001 W. 15th St., San Pedro, California. Se le anima a asistir y presentar información ambiental que usted cree que se debería abordar en el EIR.

**DISPONIBILIDAD DE DOCUMENTOS:** El Estudio Inicial y el RAW están disponibles para la revisión del público durante el horario regular de oficina en los siguientes lugares.

- LAUSD Office of Environmental Health and Safety, 333 South Beaudry Avenue, 21st Los Angeles, CA 90017 (con cita, llamar al 213.241.3199)
- San Pedro High School Library: 1001 West 15th Street, San Pedro, CA
- San Pedro Regional Branch Library, 931 S. Gaffey Street, San Pedro, CA 90731
- LAUSD Local District South Office, 1208 Magnolia Avenue, Gardena, CA 90247
- Sitio web de LAUSD Office of Environmental Health and Safety:
  - CEQA Estudio Inicial (http://achieve.lausd.net.ceqa)
  - RAW (http://achieve.lausd.net.siteassessment)

September 28, 2017| Initial Study

# SAN PEDRO HIGH SCHOOL

## Comprehensive Modernization Project

*Prepared for:*

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September 28, 2017| Initial Study

# SAN PEDRO HIGH SCHOOL

Comprehensive Modernization Project

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# Abbreviations and Acronyms

| | |
|---|---|
| ACM | asbestos containing materials |
| BMP | best management practices |
| BOE | Board of Education |
| CalEPA | California Environmental Protection Agency |
| Caltrans | California Department of Transportation |
| CBC | California Building Code |
| CCR | California Code of Regulations |
| CDE | California Department of Education |
| CDFW | California Department of Fish and Wildlife |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| CEQA | California Environmental Quality Act |
| CHPS | Collaborative for High Performance Schools |
| CNDDB | California Natural Diversity Database |
| CO2 | carbon dioxide |
| CH4 | methane |
| DSA | Division of the State Architect (under the California Department of General Services) |
| DTSC | Department of Toxic Substances Control |
| EIR | Environmental Impact Report |
| FEMA | Federal Emergency Management Agency |
| GHG | greenhouse gases |
| HASP | Health and Safety Plan |
| HCP | Habitat Conservation Plan |
| HS | High School |
| HSO | Health and Safety Officer |
| LADOT | City of Los Angeles Department of Transportation |
| LADWP | City of Los Angeles Department of Water and Power |
| LAPD | City of Los Angeles Police Department |
| LASPD | Los Angeles School Police Department |
| LAUSD | Los Angeles Unified School District |
| MND | mitigated negative declaration |
| NCCP | Natural Communities Conservation Plan |
| ND | negative declaration |
| NPDES | National Pollutant Discharge Elimination System |

# Abbreviations and Acronyms

| | |
|---|---|
| NOx | nitric oxides |
| OCP | organochlorine pesticide |
| OEHS | Office of Environmental Health and Safety |
| OSHA | Occupational Safety and Health Administration |
| PCB | polychlorinated biphenyl |
| PDF | project design features |
| PF | Public Facilities |
| PRC | Public Resources Code |
| RAW | Removal Action Workplan |
| RCRA | Resource Conservation and Recovery Act |
| RWQCB | regional water quality control board |
| SC | Standard Conditions |
| SCAQMD | South Coast Air Quality Management District |
| SCGC | Southern California Gas Company |
| SCS | sustainable communities strategy |
| SEA | Significant Ecological Area |
| SoCAB | South Coast Air Basin |
| SUP | School Upgrade Program |
| SWPPP | stormwater pollution prevention plan |
| SWRCB | State Water Resources Control Board |
| USFWS | United States Fish and Wildlife Service |
| VOC | volatile organic compounds |

# Abbreviations and Acronyms

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# 1. Introduction

## 1.1 OVERVIEW

The Los Angeles Unified School District (LAUSD) is proposing a comprehensive modernization of San Pedro High School, at 1001 West 15th Street, San Pedro, Los Angeles County, California. Comprehensive Modernization Projects are designed to address the most critical physical needs of the building and grounds at the campus through building replacement, renovation, modernization, and reconfiguration. The proposed San Pedro High School Comprehensive Modernization Project (Project) is required to undergo an environmental review pursuant to the California Environmental Quality Act (CEQA). This initial study provides an evaluation of the potential environmental consequences associated with this proposed Project.

## 1.2 BACKGROUND

On July 31, 2008, the LAUSD Board of Education (BOE) adopted a Resolution Ordering an Election and Establishing Specifications of the Election Order for the purpose of placing Measure Q, a $7 billion bond measure, on the November election ballot to fund the renovation, modernization, construction, and expansion of school facilities. On November 4, 2008, the bond passed. The nationwide economic downturn in 2009 resulted in a decline in assessed valuation of real property, which restricted the District's ability to issue Measure Q bonds and the remaining unissued Measures R and Y funds. Once assessed valuation improved, the BOE could authorize the issuance of bond funds.[1]

On December 10, 2013, the District refined their School Upgrade Program (SUP) to reflect the intent and objectives of Measure Q as well as the updated needs of District school facilities and educational goals.[2] Between July 2013 and November 2015, the SUP was analyzed under CEQA criteria in a Program Environmental Impact Report (EIR). On November 10, 2015, the BOE certified the Final SUP Program EIR.[3]

On March 10, 2015, LAUSD's Board approved pre-design and due diligence activities necessary to develop a Project definition for a Comprehensive Modernization Project at San Pedro High School (San Pedro HS).[4] The Project is intended to provide facilities that are safe, secure, and aligned with the instructional program. On December 8, 2015, the Board approved the Project definition for San Pedro HS (Project site or campus).[5] This

1 LAUSD Board of Education Report. December 10, 2013. Report Number 143 – 13/14. Subject: SUP.

2 LAUSD Board of Education Report. December 10, 2013. Report Number 143 – 13/14. Subject: SUP.

3 LAUSD Regular Meeting Stamped Order Of Business. 333 South Beaudry Avenue, Board Room, 1 p.m., Tuesday, November 10, 2015 (Board of Education Report No. 159 – 15/16).

4 LAUSD Board of Education Report. March 10, 2015. Report Number 373 – 14/15. Subject: Identification of 11 School Sites for the Development of Comprehensive Modernization Projects.

5 LAUSD Board of Education Report. December 8, 2015. Report Number 182-15/16. Subject: Amendment to the Facilities Services Division Strategic Execution Plan to Approve Project Definitions for Six Comprehensive Modernization Projects and Cancel Two Critical School Repair and Safety Projects.

approval authorizes LAUSD's Facilities Services Division to proceed with Project design and the completion of related technical and regulatory processes including those required under the CEQA.

## 1.3 CALIFORNIA ENVIRONMENTAL QUALITY ACT

The environmental compliance process is governed by the CEQA[6] and the State CEQA Guidelines.[7] CEQA was enacted in 1970 by the California Legislature to disclose to decision-makers and the public the significant environmental effects of projects and to identify ways to avoid or reduce the environmental effects through feasible alternatives or mitigation measures. Compliance with CEQA applies to California government agencies at all levels: local, regional, and state agencies, boards, commissions, and special districts (such as school districts and water districts).

LAUSD is the lead agency for this proposed Project, and is therefore required to conduct an environmental review to analyze the potential environmental effects associated with the proposed Project.

California Public Resources Code (PRC) Section 21080(a) states that analysis of a project's environmental impact is required for any "discretionary projects proposed to be carried out or approved by public agencies…" In this case, LAUSD has determined that an initial study is required to determine whether there is substantial evidence that construction and operation of the proposed Project would result in environmental impacts. An initial study is a preliminary environmental analysis to determine whether an EIR, a mitigated negative declaration (MND), or a negative declaration (ND) is required for a project.[8]

When an initial study identifies the potential for significant environmental impacts, the lead agency must prepare an EIR,[9] however, if all impacts are found to be less-than-significant or can be mitigated to a less-than-significant level, the lead agency can prepare a ND or MND that incorporates mitigation measures into the project.[10]

## 1.4 ENVIRONMENTAL PROCESS

A "project" means the whole of an action that has a potential for resulting in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment, and that is any of the following:

An activity directly undertaken by any public agency including but not limited to public works construction and related activities clearing or grading of land, improvements to existing public structures, enactment and amendment of zoning ordinances, and the adoption and amendment of local General Plans or elements thereof pursuant to Government Code Sections 65100-65700.

6 California PRC Sections 21000 et seq.
7 CCR, Title 14, Sections 15000 et seq.
8 14 CCR Section 15063.
9 14 CCR Section 15064.
10 14 CCR Section 15070.

An activity undertaken by a person which is supported in whole or in part through public agency contacts, grants, subsidies, loans, or other forms of assistance from one or more public agencies.

An activity involving the issuance to a person of a lease, permit, license, certificate, or other entitlement for use by one or more public agencies (California Code of Regulations [CCR] Section 15378[a]).

The proposed actions by LAUSD constitute a "project" because the activity would result in a direct physical change in the environment and would be undertaken by a public agency. All "projects" in the State of California are required to undergo an environmental review to determine the environmental impacts associated with implementation of the project.

### 1.4.1 Initial Study

This Initial Study was prepared in accordance with CEQA and the CEQA Guidelines, as amended, to determine if the project could have a significant impact on the environment. The purposes of this Initial Study, as described in the State CEQA Guidelines Section 15063, are to 1) provide the lead agency with information to use as the basis for deciding whether to prepare an EIR or ND; 2) enable the lead agency to modify a project, mitigating adverse impacts before an EIR is prepared, thereby enabling the project to qualify for a negative declaration; 3) assist the preparation of an EIR, if one is required; 4) facilitate environmental assessment early in the design of a project; 5) provide documentation of the factual basis for the finding in an ND that a project will not have a significant effect on the environment; 6) eliminate unnecessary EIRs; and 7) determine whether a previously prepared EIR could be used with the project. The findings in this Initial Study have determined that an EIR is the appropriate level of environmental documentation for this project.

### Environmental Impact Report

The EIR includes information necessary for agencies to meet statutory responsibilities related to the proposed Project. State and local agencies will use the EIR when considering any permit or other approvals necessary to implement the project. A preliminary list of the environmental topics that have been identified for study in the EIR is provided in the Initial Study Checklist (Chapter 4).

Following consideration of any public comments on the Initial Study, the Draft EIR will be completed and then circulated to the public and affected agencies for review and comment. One of the primary objectives of CEQA is to enhance public participation in the planning process; public involvement is an essential feature of CEQA. Community members are encouraged to participate in the environmental review process, request to be notified, monitor newspapers for formal announcements, and submit substantive comments at every possible opportunity afforded by the District. The environmental review process provides several opportunities for the public to participate through public notice and public review of CEQA documents and public meetings. Additionally, LAUSD is required to consider comments from the scoping process in the preparation of the Draft EIR and to respond to Draft EIR public comments in the Final EIR.

# 1. Introduction

## Tiering

This type of project is one of many that were analyzed in the LAUSD SUP Program EIR (Program EIR) that was certified by the LAUSD BOE on November 10, 2015.[11] LAUSD's Program EIR meets the criteria for a Program EIR under CEQA Guidelines Section 15168 (a)(4) as one "prepared on a series of actions that can be characterized as one large project and are related…[a]s individual activities carried out under the same authorizing statutory or regulatory authority and having generally similar environmental effects which can be mitigated in similar ways."

The Program EIR enables LAUSD to streamline future environmental compliance and reduces the need for repetitive environmental studies.[12] The Program EIR serves as the framework and baseline for CEQA analyses of later projects through a process known as "tiering." Under CEQA Guidelines Sections 15152(a) and 15385, "Tiering" refers to using the analysis of general matters contained in a broader EIR (such as one prepared for a program) with later EIRs and negative declarations on narrower projects; incorporating by reference the general discussions from the broader EIR; and concentrating the later EIR or negative declaration solely on the issues specific to the later project.[13]

The Program EIR is applicable to all projects implemented under the SUP . The Program EIR provides the framework for evaluating environmental impacts related to ongoing facility upgrade projects planned by the District.[14] Due to the extensive number of individual projects anticipated to occur under the SUP, projects were grouped into four categories based on the amount and type of construction proposed. The four categories of projects are as follows:[15]

- Type 1 – New Construction on New Property
- Type 2 – New Construction on Existing Campus
- Type 3 – Modernization, Repair, Replacement, Upgrade, Remodel, Renovation, and Installation
- Type 4 – Operational and Other Campus Changes

The proposed Project is categorized as Type 2 – New Construction on Existing Campus, which includes demolition and new building construction on existing campuses and the replacement of school buildings on the same location, and Type 3 – Modernization, Repair, Replacement, Upgrade, Remodel, Renovation, and Installation, which includes modernization and infrastructure upgrades. The evaluation of environmental impacts related to Type 2 and Type 3 projects, and the appropriate project design features (PDFs) and mitigation measures to incorporate, are provided in the Program EIR.

[11] LAUSD. 2015. Program EIR for the SUP. Available at: http://achieve.lausd.net/ceqa.
[12] LAUSD. 2015. Program EIR for the SUP . Available at: http://achieve.lausd.net/ceqa.
[13] CEQA Guidelines Section 15152(a).
[14] Ibid, at 4-8.
[15] Ibid, at 1-7.

The proposed Project is considered a site-specific project under the Program EIR; therefore, this EIR is tiered from the SUP Program EIR. The Program EIR is available for review online at http://achieve.lausd.net/ceqa and at LAUSD's Office of Environmental Health and Safety (OEHS), 333 South Beaudry Avenue, 21st Floor, Los Angeles, CA 90017.

## 1.4.2 Project Plan and Building Design

The Project is subject to the California Department of Education (CDE) design and siting requirements, and the school architectural designs are subject to review and approval by the California Division of the State Architect (DSA). The proposed Project, along with all other SUP-related projects, is required to comply with specific design standards and sustainable building practices. Certain standards assist in reducing environmental impacts, such as the California Green Building Code,[16] LAUSD Standard Conditions of Approval (SC), and the Collaborative for High-Performance Schools (CHPS) criteria.[17]

**Collaborative for High-Performance Schools.** The proposed Project would include CHPS criteria points under seven categories: Integration, Indoor Environmental Quality, Energy, Water, Site, Materials and Waste Management, and Operations and Metrics. LAUSD is committed to sustainable construction principles and has been a member of the CHPS since 2001. CHPS has established criteria for the development of high-performance schools to create a better educational experience for students and teachers by designing the best facilities possible. CHPS-designed facilities are healthy, comfortable, energy efficient, material efficient, easy to maintain and operate, commissioned, environmentally responsive site, a building that teaches, safe and secure, community resource, stimulating architecture, and adaptable to changing needs. The proposed Project would comply with CHPS and LAUSD sustainability guidelines. The design-build team would be responsible in incorporating sustainability features for the proposed Project, including onsite treatment of stormwater runoff, "cool roof" building materials, lighting that reduces light pollution, water and energy-efficient design, water-wise landscaping, collection of recyclables, and sustainable and/or recycled-content building materials.

**Project Design Features.** PDFs are environmental protection features that modify a physical element of a site-specific project and are depicted in a site plan or documented in the project design plans. PDFs may be incorporated into a project design or description to offset or avoid a potential environmental impact and do not require more than adhering to a site plan or project design. Unlike mitigation measures, PDFs are not special actions that need to be specifically defined or analyzed for effectiveness in reducing potential impacts.

**Standard Conditions of Approval.** LAUSD Standard Conditions of Approval (SC) are uniformly applied development standards and were adopted by the LAUSD Board in November 2015.[18] The SCs have been updated since the adoption of the 2015 version in order to incorporate and reflect changes in the recent laws, regulations and the LAUSD's standard policies, practices and specifications. The SCs were compiled from

[16] California Green Building Standards Code, Title 24, Part 11, of the CCR.

[17] The Board of Education's October 2003 Resolution on Sustainability and Design of High Performance Schools directs staff to continue its efforts to ensure that every new school and modernization project in the District, from the beginning of the design process, incorporate CHPS criteria to the extent possible.

[18] LAUSD. 2015. Program EIR for the SUP. Available at: http://achieve.lausd.net/ceqa. (see Table 4-1 and Appendix F of the Program EIR).

established LAUSD standards, guidelines, specifications, practices, plans, policies, and programs, as well as typically applied mitigation measures. The SCs are divided into the 18 LAUSD CEQA environmental topics (Appendix G of the CEQA Guidelines plus Pedestrian Safety).[19] For each SC, compliance is triggered by factors such as the project type, existing conditions, and type of environmental impact. Compliance with every SC is not required.

**Mitigation Measures.** If, after incorporation and implementation of federal, state, and local regulations; CHPS prerequisite criteria; PDFs; and SCs, there are still significant environmental impacts, then feasible and project-specific mitigation measures are required to reduce impacts to less than significant levels. Mitigation under CEQA Guidelines Section 15370 includes:

- Avoiding the impact altogether by not taking a certain action or parts of an action.
- Minimizing impacts by limiting the degree or magnitude of the action and its implementation.
- Rectifying the impact by repairing, rehabilitating, or restoring the impacted environment.
- Reducing or eliminating the impact over time by preservation and maintenance operations during the life of the action.
- Compensating for the impact by replacing or providing substitute resources or environments.

Mitigation measures must further reduce significant environmental impacts above and beyond compliance with federal, state, and local laws and regulations; PDFs; and SCs.

The specific CHPS prerequisite criteria and SCs are identified in the tables under each CEQA topic.[20] Federal, state, regional, and local laws, regulations, plans, and guidelines; CHPS criteria; PDFs; and LAUSD conditions are considered part of the project and are included in the environmental analysis.[21]

## 1.5 IMPACT TERMINOLOGY

The following terminology is used to describe the level of significance of impacts.

- A finding of ***no impact*** is appropriate if the analysis concludes that the project would not affect the particular topic area in any way.
- An impact is considered ***less than significant*** if the analysis concludes that it would cause no substantial adverse change to the environment and requires no mitigation.

[19] As of September 2016, an additional environmental topic has since been required by the State Office of Planning and Research (Tribal Cultural Resources). The LAUSD Environmental Checklist now has 19 topics.
[20] CHPS criteria are summarized. The full requirement can be found at http://www.chps.net/dev/Drupal/California.
[21] Where the LAUSD Standard Conditions of Approval identifies actions to be taken, it is understood that the Project proponent would implement all LAUSD actions for this Project.

- An impact is considered ***less than significant with mitigation incorporated*** if the analysis concludes that it would cause no substantial adverse change to the environment with the inclusion of environmental commitments or other enforceable mitigation measures.

- An impact is considered ***potentially significant*** if the analysis concludes that it could have a substantial adverse effect on the environment. If any impact is identified as potentially significant, an EIR is required.

## 1.6 ORGANIZATION OF THE INITIAL STUDY

The content and format of this report are designed to meet the requirements of CEQA and the State CEQA Guidelines. The conclusions in this initial study are that the proposed Project would have no significant impacts with the incorporation of mitigation. This report contains the following sections:

**Chapter 1, *Introduction*** identifies the purpose and scope of the ND and supporting Initial Study and the terminology used.

**Chapter 2, *Environmental Setting*** describes the existing conditions, surrounding land uses, general plan designations, and existing zoning at the proposed Project site and surrounding area.

**Chapter 3, *Project Description*** identifies the location, background, and describes the proposed Project in detail.

**Chapter 4, *Environmental Checklist and Analysis*** presents the LAUSD CEQA checklist, an analysis of environmental impacts, and the impact significance finding for each resource topic. This section identifies the CHPS criteria, PDFs, SCs, and mitigation measures, as applicable. Bibliographical references and individuals cited for information sources and technical data are footnoted throughout this CEQA Initial Study; therefore, a stand-alone bibliography section is not required.

**Chapter 5, *List of Preparers*** identifies the individuals who prepared the MND and supporting Initial Study and technical studies and their areas of technical specialty.

**Appendices** have data supporting the analysis or contents of this CEQA Initial Study.

A. LAUSD Standard Conditions of Approval

B. Tree Inventory and Location

C. CDFW California Natural Diversity Database

D. Comprehensive Geotechnical Report

E. Preliminary Environmental Site Assessment Equivalent

F. Phase I Environmental Site Assessment

# 1. Introduction

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# 2. Environmental Setting

## 2.1 PROJECT LOCATION

San Pedro High School is located on a 22.90-acre site in the community of San Pedro, approximately 22 miles southwest from downtown Los Angeles and approximately 1.45 miles north of the Pacific Ocean (*Figure 1, Project Vicinity*). Specifically, the campus is located at 1001 West 15th Street within the southwest portion of the City of Los Angeles. The campus comprises two city blocks and is bound by West 15th Street to the north, Dana Middle School immediately to the east, West 17th Street to the south, and South Leland Street to the west (*Figure 2, Project Location*). The Assessor's Parcel Number (APN) for the Project site is 7458-084-918. Project implementation would not occur across the entire school campus, but on selected areas undergoing renovation. *Figure 3, Existing Site Plan* shows the existing site plan and buildings. Various buildings and landscapes on the Project site are shown in *Figure 4, Character Defining Features*.

## 2.2 SURROUNDING LAND USES

San Pedro HS is located in the San Pedro Community Plan Area of the City of Los Angeles. Land uses north of the campus include primarily medium density residential uses and several commercial uses. Occupancies west and south of the campus are primarily low-density residential. The property to the east of the campus is occupied by Dana Middle School, with medium density residential uses beyond.

## 2.3 CAMPUS HISTORY

During the 1920s and early 1930s, San Pedro HS was located in the block bordered by South Gaffey to the north, 13th Street to the east, South Cabrillo to the south, and 12th Street to the east. However, likely due to the Long Beach Earthquake in 1933, San Pedro HS relocated to its present site circa 1935. The primary period of significance[22] for San Pedro HS is between 1935 and 1938 when the campus was rebuilt in the PWA Moderne style. The first buildings constructed were the Administration Building, Home Economics Building, and Industrial Arts Building. The Library is in the Administration Building and has several murals painted in 1937. By 1936, plans were complete for the Auditorium and Physical Education Buildings and they were constructed in 1937. Classroom Building 1 was constructed in 1938. In the lead up to America's entrance into World War II, the Shop Building (which is now demolished), was built specifically for national defense training on campus.

Postwar growth at San Pedro HS began in the 1960s, with the construction of what was then referred to as the Girls' Gymnasium in 1960, an additional Classroom Building and new Food Service Building in 1961, alterations to the Industrial Arts Building and Home Economics Building in 1965 and 1968, respectively, and a construction of a new Shop Building in 1969 as an addition to the Industrial Arts Building. Following the 1960s,

[22] Span of time in which a property attained the significance for which it meets the National Register criteria (or other state, local criteria).

no major new construction occurred on campus until 2005, with the addition of the new gymnasium. Several other buildings that were added to the campus include the portable buildings and modular structures.

The campus has been assigned a California Historic Resources status code of 2S2, noting that the campus appears individually eligible for the National Register of Historic Places (NRHP) by a consensus through the Section 106 process and is listed in the California Register. Figure 4 shows the campus and character-defining features that account for its eligibility as a historical resource.

## 2.4 EXISTING CONDITIONS

San Pedro HS is an operational high school serving students in grades 9 through 12. The campus sits on a multi-tiered hillside overlooking the Los Angeles harbor with the highest elevation on the west. The new Gymnasium completed in 2005, play areas and athletic fields dominate the lower level, and separate the San Pedro HS campus from adjacent Dana Middle School campus. West of the lower level is the main plateau which consists of three original permanent buildings: Administrative and Classroom Building, Home Economics Building, and Classroom Building #1. Also on the main level facing 17th Street is Classroom Building #2. The Administrative Building has side stair access on the north side from 15th Street, and a courtyard to the East.

West and uphill from the main Administrative Building is the upper level of the campus where the Food Service and the Auditorium Building are located. There are several portable classrooms located in the northwest end and in the central part of the campus. South of the Auditorium are two permanent buildings, the Industrial Arts Building and the Shop Building *(see Figure 3, Existing Site Plan)*.

## 2.5 GENERAL PLAN AND EXISTING ZONING

The City of Los Angeles General Plan Land Use designation for the school property is 'Public Facilities'. The land use element of the General Plan is comprised of 35 community plans; they are the official guide to the future development of the City of Los Angeles.

The zoning for the school property is [Q]PF-1XL. PF (Public Facilities), the designation for the use and development of publicly owned land, including public elementary and secondary schools. [Q] means additional restrictions on building design, landscape buffer, signs, etc.; '1' is Height District No. 1; and 'XL' is Extra Limited Height District where no building or structure shall exceed two stories, nor shall the highest point of the roof of any building or structure exceed 30 feet in height.

LAUSD anticipates that it would comply with Government Code Section 53094 to render the local City of Los Angeles Zoning Ordinance inapplicable to the proposed Project.




SOURCE: Los Angeles County GIS.

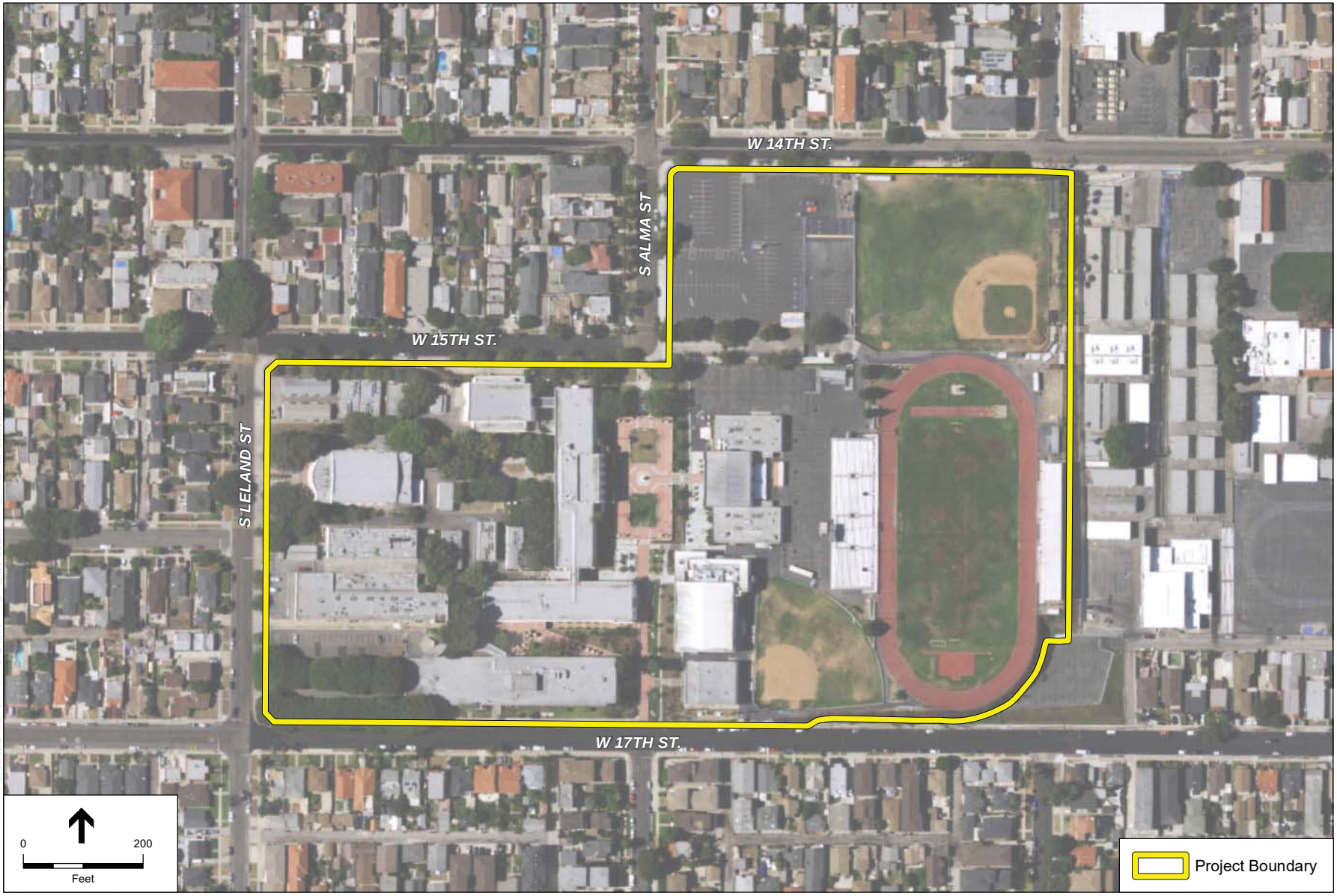
San Pedro High School. 211085.31

**Figure 1**

Project Vicinity

# 2. Environmental Setting

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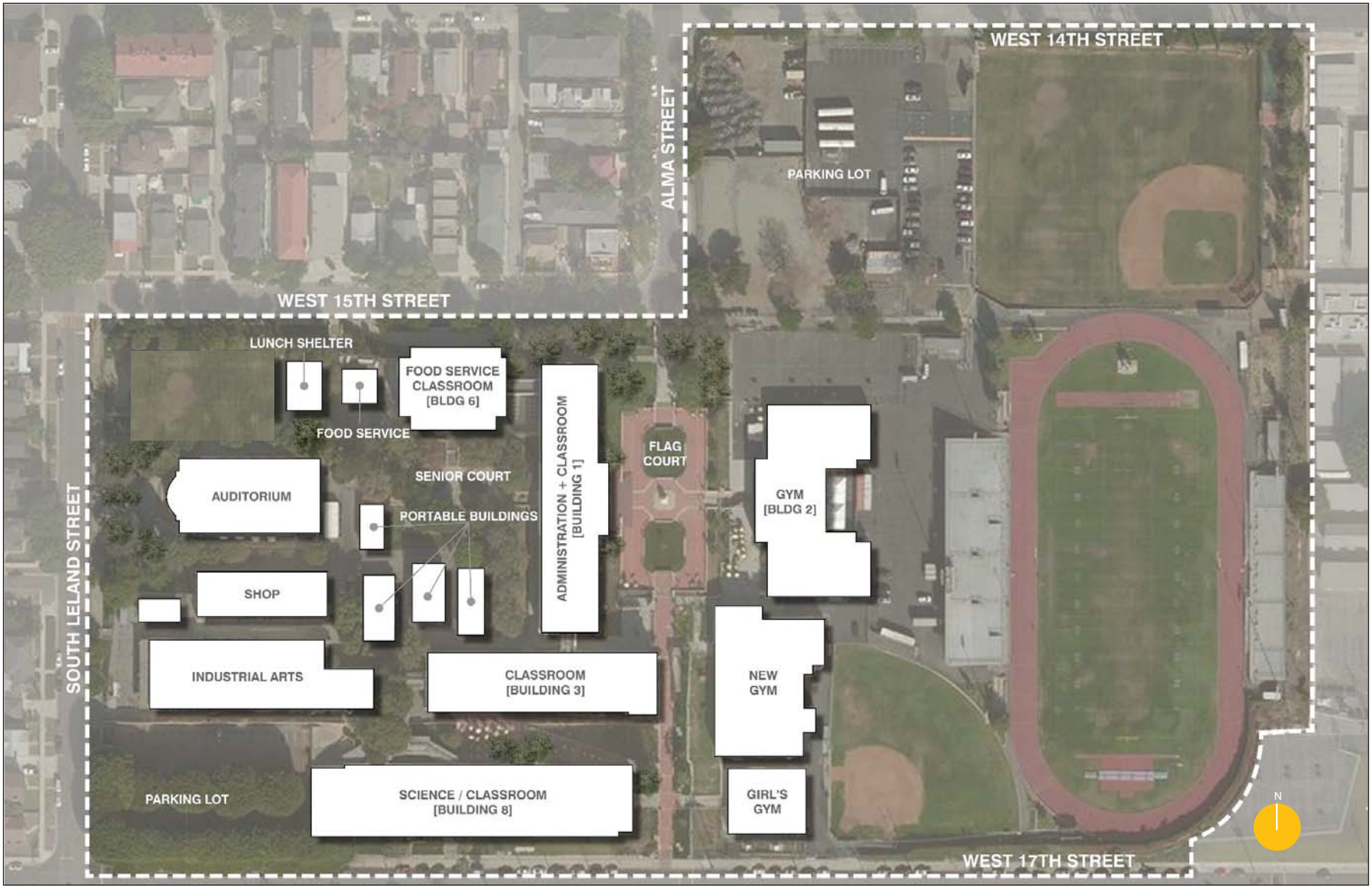

SOURCE: ESRI

San Pedro High School Comprehensive Modernization Project . 211085.31

**Figure 2**
Project Location

# 2. Environmental Setting

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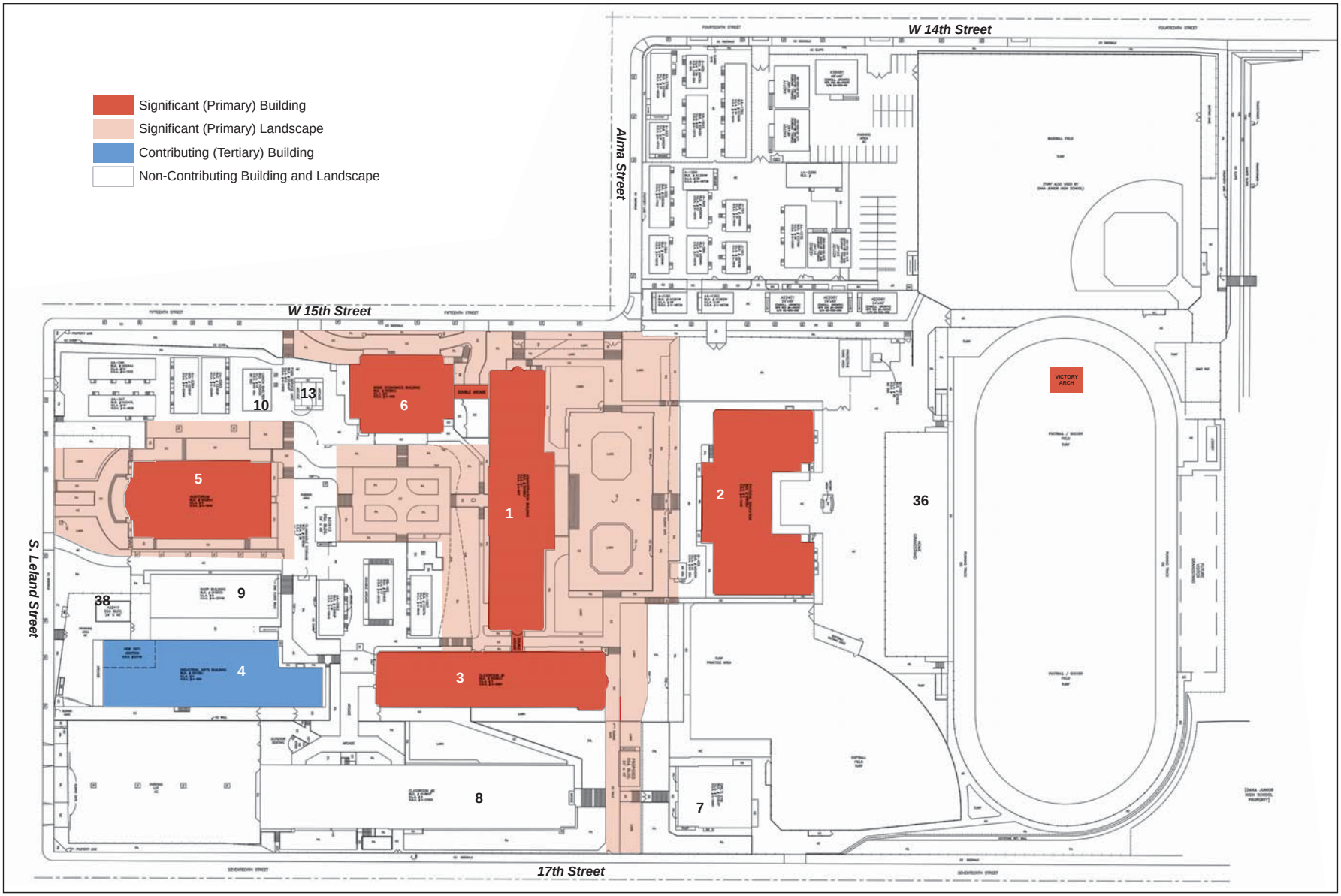

SOURCE: LPA, 2017



**Figure 3**
Existing Site Plan

# 2. Environmental Setting

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SOURCE: Los Angeles Unified School District, 2015

San Pedro High School Comprehensive Modernization Project . 211085.31

**Figure 4**
Character Defining Features

# 2. Environmental Setting

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## 2.6 NECESSARY APPROVALS

It is anticipated that approval required for the proposed Project would include, but may not be limited to, the following:

**Responsible Agencies**

- City of Los Angeles, Public Works Department. Permit for curb, gutter, and other offsite improvements
- City of Los Angeles, Fire Department. Approval of plans for emergency access and emergency evacuation
- City of Los Angeles, Department of Transportation. Approval of haul route

**Reviewing Agencies**

- South Coast Air Quality Management District (SCAQMD). Approval of Construction Emission/Dust Control Plan, architectural coatings
- Los Angeles Regional Water Quality Control Board (RWQCB). Approval of water quality management plan
- State Water Resources Control Board (SWRCB) Notice of Intent (NOI) to obtain permit coverage. General Construction Permit regulates stormwater and nonstormwater discharges associated with construction activities
- California Department of General Services, DSA. Approval of site-specific project construction drawings

# 2. Environmental Setting

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# 3. Project Description

The proposed Project would include renovations, modernizations, and new construction at San Pedro HS; including demolition of the Industrial Arts Building, Metal Shop, And Lunch Shelter/Food Service Building, and removal of approximately 10 classrooms located in five portable (relocatable) buildings. The Project would include construction of a new Band and Shop Building, Lunch Shelter, and an Administration, Food Service, and Classroom Building to house general and specialty classrooms, administration, kitchen, dining, and support spaces. The new buildings would house approximately 14 new general and specialty classrooms, and support spaces. The Project includes modifications and/or upgrades to the Administration Building, the Old Gymnasium (this includes voluntary seismic retrofit and new wood floor in the main court), the Home Economics Building (repurposed as classrooms), and Classroom Building 1. Upon completion of Project construction, San Pedro HS would have 74 classrooms, consisting of 25 existing classrooms, 35 remodeled classrooms, and 14 new classrooms.

The proposed Project would result in demolition of and/or modifications to existing buildings, potentially including historic buildings and resources. Table 3-1 shows details about the characteristics of the existing buildings to be demolished and/or renovated. The Project would be designed to preserve and enhance significant (primary) character-defining features associated with the campus. Additionally, the proposed Project would be designed and implemented in a manner that complies with the LAUSD Design Guidelines and Treatment Approaches for Historic Schools.[23]

As outlined in Table 3-1 and shown in *Figure 5*, *Demolition Plan*, the proposed Project would include demolition of the following facilities:

- Industrial Arts Building
- Metal Shop Building
- Lunch Shelter/Service Building
- Approximately 10 classrooms located in five relocatable or portable buildings

The proposed Project would include construction of the following facilities that would be designed, constructed, and furnished/equipped to current code requirements and District design standards:

- Band and Shop Building
- Lunch Shelters
- Administration, Food Service, and Classroom Building

[23] LAUSD. January 2015. LAUSD Design Guidelines and Treatment Approaches for Historic Schools. Los Angeles, CA.

# 3. Project Description

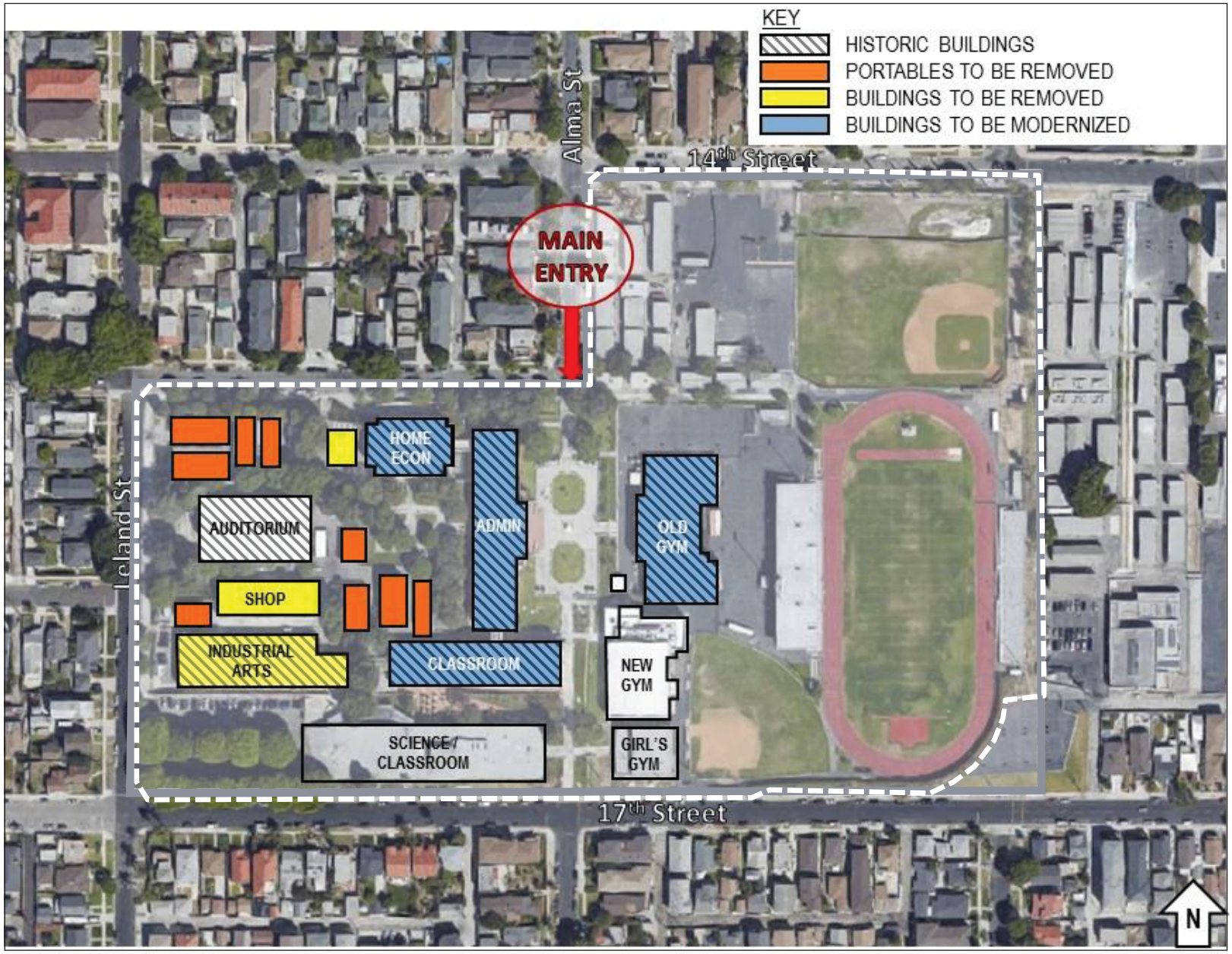
**TABLE 3-1**
**CHARACTERISTICS OF EXISTING BUILDINGS**

| Building Number | Building Name | Year Built | Building Type |
|---|---|---|---|
| **Buildings to be Demolished/Removed** | | | |
| 001CBJ | Industrial Arts Building | 1936 | Permanent |
| 015DCS | Metal Shop | 1971 | Permanent |
| 014DAP | Lunch Shelter/Food Service Building | 1964 | Permanent |
| **Portable Buildings to be Removed** | | | |
| DSA BLDG | A-2241 | 1999 | Portable |
| DSA BLDG | A-2281 | N/A | Portable |
| X2082P | AA-2082 | 1960 | Portable |
| Z0182S | BB-182 | 1973 | Portable |
| X1007M | AA-1007 | 1950 | Portable |
| **Buildings to be Renovated** | | | |
| 0038CJ | Home Economics Building | 1937 | Permanent |
| 004BDJ | Administration Building | 1937 | Permanent |
| 005BCJ | Classroom Building # 1 | 1939 | Permanent |
| 006CBJ | Physical Education Building | 1937 | Permanent |
| **Buildings to undergo Seating Reconditioning and ADA Upgrades** | | | |
| 002BAJ | Auditorium | 1937 | Permanent |
| Source: LAUSD, 2016 | | | |

*Figure 6* shows the proposed site plan.

Modernization and/or upgrades would be completed for the following buildings:

- Home Economics Building
- Administration Building
- Classroom Building 1
- Physical Education Building (Old Gymnasium)




SOURCE: Los Angeles Unified School District, 2002

San Pedro High School Comprehensive Modernization Project . 211085.31

**Figure 5**
Demolition Plan

# 3. Project Description

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SOURCE: LPA



**Figure 6**
Proposed Site Plan

# 3. Project Description

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Upgrades to the Home Economic Building, Administration Building (which includes the main classroom building), Classroom Building 1, and Physical Education (PE) Building (Old Gym) would entail seismic retrofits. Seismic retrofitting would be completed in compliance with the seismic safety requirements of the LAUSD Supplemental Geohazard Assessment Scope of Work, California Building Code, Division of State Architect, and CDE.

The Project includes reconditioning of the existing seating and American with Disabilities Act (ADA) upgrades in the Auditorium. Auditorium ADA upgrades would include accessible seating in the Auditorium; as well as accessibility improvements to the main entry, restrooms, and possibly the ticket area. Badly damaged or missing seats may be replaced with matching seats in District storage.

The Classroom Building 2 (Science Building) would receive an exterior facelift to make the building compatible with the architectural features of the historic buildings and the designs for the new buildings.

Upgrades that would be completed throughout the campus include:

- Site-wide infrastructure, including electrical, storm drain, gas, sewer, and water improvements
- Site-wide upgrades to remove identified and prioritized barriers to program accessibility
- Student drop off area, landscape, hardscape, and exterior paint

Improvements required by the ADA, Division of the State Architect, CEQA, and the Office of the Independent Monitor for program accessibility, would ensure compliance with local, state, and/or federal facilities requirements.

## 3.1 DESIGN STRATEGY

The proposed Project would provide sturdy, durable finishes at the base of buildings, from materials that would endure maximum abuse, such as polymer-modified plaster (integral color) and cast-in place concrete. The proposed Project would also use elevated materials, which would allow for enriched materials in areas above that are out of reach, including panelized systems that would be refined and elegant, and suitable for a historic campus. The new buildings would take full advantage of natural daylight and harbor views, specifically in the entrance, dining and northern elevation areas, that would help emphasize shared experiences, community and gathering. A hallmark of historic Streamline Moderne buildings, the campus would emphasize interplay of overall horizontals with strong vertical forms at building entries and corridor ends.

The main pedestrian access to the campus would be located between the Auditorium Building and proposed Administration, Food Service, and Classroom Building in the southwestern portion of the site, fronting South Leland Street. It would include bench seating for 40 people, and table seating for 32 people. The Senior Courtyard, which would be located east of the Auditorium Building, would include a small outdoor dining area with landscaping and would include bench seating for 191 people and outdoor table seating for 152 people. A

secondary pedestrian entrance to the school would be located on the north side of campus, between the existing Administration and Old Gym Buildings off 15th Street.

## 3.2 CIRCULATION, ACCESS AND PARKING

Currently, the school's main entrance is located at the intersection of West 15th Street and South Alma Street. The campus entrance would be relocated to South Leland Street between 16th Street and 17th Street. Functionally, the main administration would be housed in a new building south of the Auditorium. The proposed Project is designed to increase circulation, access (including the path of travel), and improve parking at the campus with the addition of a accessible visitor on-site parking lot off Leland Street. Internal circulation routes would include emergency vehicle access and pedestrian access.

The campus currently includes a staff and visitor parking lot on the southwest corner of the campus off West 17th Street and a staff and student parking lot in the northeast portion of the campus off South Alma Street. The campus currently includes 248 parking stalls. The proposed Project would result in a decrease of onsite parking spaces from 248 parking stalls to 226 parking stalls (159 parking stalls in the northeast and 67 stalls in the southwest). The staff and visitor parking lot would be reconfigured, but would remain on the southwestern corner of the campus.

## 3.3 LANDSCAPE IMPROVEMENTS

LAUSD schools are developed with: 1) buildings; 2) paved areas including parking lots, hardcourts, and walkways; and 3) landscaped areas, including turf playfields (i.e., football field and baseball/softball field) and ornamental landscaping with trees, shrubs, and grass. The landscape on certain areas of the San Pedro HS campus is considered character-defining, which contributes to the eligibility of San Pedro HS as a historical resource. Significant (primary) landscape on the Project site is located as follows (*Figure 4, Character Defining Features*): the perimeter of the Auditorium, central courtyard in front of the Administration Building, on the eastern side of the Administration Building, walkway along 15th Street, and the concrete "Victory Arch" monument at the football field.[24] There are currently 149 trees within and along the boundaries of the Project site. There are no protected trees on the campus.

The proposed Project would include improvements to each of these areas. Landscape improvements may include repair or replacement of irrigation systems including lawn sprinklers and sprinkler controls, trees, shrubs and other vegetation; landscaping plant material; utilitarian landscape components, such as sprinkler piping; and fencing and freestanding exterior walls. Significant (primary) landscape would be preserved. A total of 121 trees on the Project site would be removed and two street trees would be removed. None of the trees on the Project site are protected. In addition, the proposed Project would include a small Japanese Garden, possibly located east of the new Administration, Food Service, and Classroom Building. The new Japanese Garden will

[24] PCR Services, Character Defining- Features Memorandum (CDFM) for San Pedro High School, 1001 West 15h Street, Los Angeles, California 90731, Prepared for LAUSD, June 30, 2015.

pay tribute to the Japanese Garden that was located on the San Pedro HS several decades ago, but is no longer in existence.

## 3.4 INFRASTRUCTURE

The Project site is currently served by existing utilities that are at the end of their service life and need replacement. Site-wide infrastructure improvements would be completed as part of the proposed Project for electrical, gas, sewer, water, and drainage.

Existing storm water runoff is collected by a system of building roof drains and catch basins throughout the site and conveyed by a private, onsite underground storm drain system to discharge to gutters through a series of parkway drains and curb scuppers along the public street adjacent to the perimeter of the campus. Storm water runoff from new construction would be intercepted by roof drains and catch basins and discharged through a combination of new and existing parkway drains and curb scuppers along the public streets adjacent to the perimeter of the campus. Storm water runoff would be conveyed through best management practices (BMPs) prior to discharge. New parkway drains may be constructed and existing parkway drains would be reconstructed and removed due to poor condition or relocation of storm drain discharge locations.

Based on the Comprehensive Geotechnical Report[25], infiltration into site subsoils is not feasible. Capture and Use would be implemented where feasible. These systems would consist of underground or above-ground storage tanks or cisterns that collect and store stormwater runoff for reuse as irrigation. This system would connect directly to conventional irrigation systems and only operate when storm water is present in the storage tanks or cisterns. The system would be implemented in areas where irrigation demand is adequate to support discharge of mitigated stormwater volumes.

Existing domestic water service connections are located along public streets adjacent to the perimeter of the campus at South Leland Street, West 15th Street, South Alma Street, 14th Street and 17th Street. Existing domestic water services, meters, backflow assemblies, pressure regulators (if needed) and onsite pipe systems would be upgraded as needed to meet additional demand from plumbing fixture counts at existing buildings. New onsite domestic water supply pipes would be installed to connect domestic water services to new buildings and structures.

## 3.5 UTILITY PROVIDERS

The City of Los Angeles Department of Water and Power (LADWP) provides electric and potable water service to the Project site. The Southern California Gas Company (SCGC) provides natural gas to the Project site. The City of Los Angeles Bureau of Sanitation is the sewer service provider for the Project site.

[25] Group Delta, 2016. Comprehensive Geotechnical Report, Campus Modernization and Retrofit, San Pedro High School, 1001 West 15th Street, Los Angeles, CA. November 4, 2016.

## 3.6 SECURITY AND SAFETY FEATURES

With the exception of the front lawn along 15th Street and in front of the Auditorium on Leland Street, the perimeter of the campus is surrounded by an approximately 8-foot metal security fence. The improvements to the Project site would include similar fencing. All new structures would be equipped with fire suppression sprinkler systems and lighting on the exterior walls. All entries would be illuminated to provide safe access. The new parking lots would have lighting that would be focused and shielded to reduce glare and light spill-over. PDFs would be incorporated to ensure that these new sources would not create light spill-over greater than 2-foot candles onto adjacent residences. Site lighting would be designed to have minimal offsite impact and contribution to sky glow. Outdoor lighting of architecture and landscape features and interior lighting would be designed to minimize light trespass to the outside from the interior.

## 3.7 SUSTAINABILITY FEATURES

LAUSD is committed to sustainable construction principles, and has been a member of the CHPS since 2001. CHPS has established criteria for the development of high performance schools to create a better educational experience for students and teachers by designing the best facilities possible. CHPS-designed facilities are energy efficient, material efficient, easy to maintain and operate, environmentally responsive safe and secure, a community resource, and adaptable to changing needs.

School facilities seeking CHPS-certification complete a scorecard and must achieve a certain number of points to be certified. The proposed Project would exceed the minimum requirements to qualify as a CHPS-certified school, with 134 points targeted and a minimum of 110 points required. Some of the sustainable design features include easy access to public transportation, onsite treatment of stormwater runoff, "cool-roof" building materials, lighting that reduces light pollution, water and energy efficient design, water-wise landscaping, collection of recyclables, and sustainable and/or recycled-content building materials. The proposed Project's new buildings and structures would be designed to reduce energy use below current levels by incorporating modernized and energy-efficient features, which may include lighting, windows, electrical transformers, building insulation, or installation of irrigation smart controllers, etc. All new construction would exceed by 10 percent or more the California Title 24, Part 6 energy efficient standards.

## 3.8 REMOVAL ACTION WORKPLAN

A Preliminary Environmental Assessment - Equivalent (PEA-E) conducted by Clark Seif Clark, Inc. (CSC) in June of 2017 (Appendix E) for the proposed Project recommended soil sampling at San Pedro HS based on the possibility of historic uses of termiticides, herbicides (including arsenic), pesticides, PCBs (in caulking), and lead based paint (LBP). Soil sampling results indicated that arsenic, lead, and/or organochlorine pesticide (OCP) concentrations exceeded the health-based screening levels at 27 surficial soil locations. Of the 27 areas, 17 were impacted with arsenic, 10 were impacted with lead, and 5 were impacted with OCPs above screening levels. Further, there were four locations whew two or more compounds exceeded their respective screening levels.

CSC recommended that a Removal Action Workplan (RAW) be prepared prior to demolition or construction activities that would disturb areas of concern.[26]

LAUSD is currently overseeing preparation of the RAW for the proposed Project. The RAW includes a description of the contamination, excavation dimensions for the proposed Project, methodology, transportation and disposal, confirmation sampling plan, methods to ensure worker and public health and safety, and cleanup goals. Further, community notices will be distributed in accordance with LAUSD policy. All cleanup activities under the RAW would adhere to applicable state and local policies and regulations regarding excavation, removal and disposal of affected materials. The PEA-E estimates that the proposed Project would include removal of an estimated 225.6 cubic yards of soil. For the purposes of this IS, a conservative estimate of up to 500 cubic yards of soil is being used.

## 3.9 CONSTRUCTION PHASING

The proposed Project would be developed in a minimum of three phases over a 3 to 4-year construction phasing schedule. The construction schedule would have limited to no overlap between phases. All construction would occur during daytime hours, specifically 7:00 a.m. to 7:00 p.m. Monday through Friday. Construction is anticipated to begin in January 2019 and to be completed in March 2022.

[26] Clark Seif Clark, Inc., 2016. *Phase I Environmental Site Assessment, San Pedro High School, 1001 W. 15th Street, San Pedro, CA.* June 7, 2016.

# 3. Project Description

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# 4. Environmental Checklist

## 4.1 AESTHETICS

| | Potentially Significant Impact | Less Than Significant with Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| **I. AESTHETICS.** Would the Project: | | | | |
| a. Have a substantial adverse effect on a scenic vista? | ☐ | ☐ | ☐ | ☒ |
| b. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings, or other locally recognized desirable aesthetic natural feature within a state scenic highway? | ☐ | ☐ | ☐ | ☒ |
| c. Substantially degrade the existing visual character or quality of the site and its surroundings? | ☐ | ☐ | ☒ | ☐ |
| d. Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area? | ☐ | ☐ | ☒ | ☐ |

### 4.1.1 Discussion

The Program EIR includes Standard Conditions of Approval (SCs) for minimizing impacts to aesthetic resources of the existing environment in areas where future Projects would be implemented under the SUP. Applicable SCs related to aesthetic resource impacts associated with the proposed Project are provided in **Table 4.1-1**.

**TABLE 4.1-1**
**AESTHETIC RESOURCES STANDARD CONDITIONS OF APPROVAL**

| Applicable SCs | Description |
|---|---|
| SC-AE-1 | **School Design Guide.** This document outlines measures for re-use rather than destruction of historical resources. Requires the consideration of architectural appearance/consistency and other aesthetic factors during the preliminary design review for a proposed school upgrade Project. Architectural quality must consider compatibility with the surrounding community. |
| SC-AE-2 | **School Design Guide** This document outlines measures to reduce aesthetic impacts around schools, such as shrubs and ground treatments that deter taggers, vandal-resistant and graffiti-resistant materials, painting, etc. |

| Applicable SCs | Description |
|---|---|
| SC-AE-3 | LAUSD shall assess a proposed Project's consistency with the general character of the surrounding neighborhood, including any proposed changes to the density, height, bulk, and setback of new building (including stadium), addition, or renovation. Where feasible, LAUSD shall make appropriate design changes to reduce or eliminate viewshed obstruction and degradation of neighborhood character. Such design changes could include, but are not limited to, changes to campus layout, height of buildings, landscaping, and/or the architectural style of buildings. |
| SC-AE-7 | LAUSD shall reduce the lighting intensity from the new sources on adjacent residences to no more than two foot-candles, measured at the residential property line. LAUSD shall utilize hoods, filtering louvers, glare shields, and/or landscaping as necessary to achieve the standard. The lamp enclosures and poles shall also be painted to reduce reflection. Following installation of lights the lighting contractor shall review and adjust lights to ensure the standard is met. |
| SC-AE-8 | Design site lighting and select lighting styles and technologies to have minimal impact off-site and minimal contribution to sky glow. Minimize outdoor lighting of architectural and landscape features and design interior lighting to minimize trespass outside from the interior.<br>International Dark-Sky Association (IDA) and the Illuminating Engineering Society (IES) Model Lighting Ordinance (MLO) shall be used a guide for environmentally responsible outdoor lighting. The MLO outdoor lighting has outdoor lighting standards that reduce glare, light trespass, and skyglow. The Joint IDA-IESNA Model Outdoor Lighting Ordinance (MLO) uses lighting zones (LZ0-4) which allow the District to vary the stringency of lighting restrictions according to the sensitivity of the area as well as consideration for the community. The MLO also incorporates the Backlight-Uplight-Glare (BUG) rating system for luminaires, which provides more effective control of unwanted light. IDA-IESNA Model establishes standards to:<br>• Limit the amount of light that can be used<br>• Minimize glare by controlling the amount of light that tends to create glare<br>• Minimize sky glow by controlling the amount of uplight<br>• Minimize the amount of off-site impacts or light trespass |
| SC-CUL-1 | **Design Build Team to Include Qualified Historic Architect**<br><br>For campuses with qualifying historical resources under CEQA, the Design-Build team shall include a qualified Historic Architect. The Historic Architect shall provide input to ensure ongoing compliance, as Project plans progress, with the Secretary of the Interior's Standards and LAUSD requirements and guidelines for the treatment of historical resources (specific requirements follow in SC-CUL-2).<br><br>For Projects involving structural upgrades to historic resources, the Design-Build team shall include a qualified Structural Engineer with a minimum of eight (8) years of demonstrated Project-level experience in Historic Preservation.<br><br>The Historic Architect/s shall meet the Secretary of the Interior's Professional Qualifications Standards and the standards described on page 8 of the *LAUSD Design Guidelines and Treatment Approaches for Historic Schools*. The Historic Architect shall provide input throughout the design and construction process to ensure ongoing compliance with the above-mentioned standards. |
| SC-CUL-2 | **Role of Historic Architect on Design-Build Team**<br><br>The tasks of the Historic Architect on the Design-Build team shall include (but not necessarily be limited to) the following:<br><br>1. The Historic Architect shall work with the Design Builder and LAUSD to ensure that Project components, including new construction and modernization of existing facilities, continue to comply with applicable historic preservation standards, including the Secretary of the Interior's Standards for the Treatment of Historic Properties and LAUSD Design Guidelines and Treatment Approaches for Historic Schools. The Historic Architect shall work with the Design-Builder throughout the design process to develop Project options that facilitate compliance with the applicable historic preservation standards.<br>2. For new construction, the Historic Architect shall work with the Design-Builder and LAUSD to identify options and opportunities for (1) ensuring compatibility of scale and character for new construction, site and landscape features, and circulation corridors, and (2) ensuring that new construction is designed and sited in such a way that reinforces and strengthens, as much as feasible, character-defining site plan features, landscaping, and circulation corridors throughout campus.<br>3. For modernization and upgrade Projects involving contributing (significant) buildings or features, the Historic Architect shall work with the Design-Builder and LAUSD to ensure that specifications |

| Applicable SCs | Description |
|---|---|
| | for design and implementation of Projects comply with the applicable historic preservation standards.<br>4. The Historic Architect shall participate in design team meetings through all phases of the Project through 100 percent construction drawings, pre-construction, and construction phases.<br>5. The Historic Architect shall produce brief memos, at the 50 percent and 100 percent construction drawings stages, demonstrating how principal Project components and treatment approaches comply with applicable historic preservation standards, including the Secretary of the Interior's Standards for the Treatment of Historic Properties and LAUSD Design Guidelines and Treatment Approaches for Historic Schools. The memos will be reviewed by LAUSD and incorporated into the Mitigation Monitoring and Report Plan (MMRP) for the Project.<br>6. The Historic Architect shall participate in pre-construction and construction monitoring activities to ensure continuing conformance with Secretary's Standards and/or avoidance of a material impairment of the historical resources.<br>7. The Historic Architect shall provide specialized Construction Specifications Institute (CSI) specifications for architectural features or materials requiring restoration, removal, or on-site storage. This shall include detailed instructions on maintaining and protecting in place relevant features.<br>8. The Design-Builder and Historic Architect shall be responsible for incorporating LAUSD's recommended updates and revisions during the design development and review process. |

## 4.1.2 Impact Analysis

Would the Project:

**a) Have a substantial adverse effect on a scenic vista?**

**No Impact.** Scenic vistas generally include extensive panoramic views of natural features, unusual terrain, or unique urban or historic features, for which the field of view can be wide and extend into the distance, and focal views that focus on a particular object, scene or feature of interest. Based on the City of Los Angeles General Plan, the proposed Project is not considered a scenic vista.[27] The Project site is located in the San Pedro Community Plan Area, which has a pattern of low to medium density residential uses interspersed with open areas and coastal views. The Community Plan designates areas bordering coastal areas as "scenic".[28] The nearest scenic vista from the campus is the Pacific Ocean, located approximately 1.45 miles south of the campus. There are views of the Pacific Ocean from areas on the campus. The Project would not significantly alter the site topography and would not include structures that would obstruct the existing views of the Pacific Ocean from the campus. The proposed Project would demolish the existing Metal Shop Building and Industrial Arts Building and develop the new Administration, Food Service, and Classroom Building, Band and Shop Building in the area where the Shop and Industrial Arts Buildings were previously located. The residences across Leland Street from the Project site currently have direct views of the Auditorium Building, Shop Building and Industrial Arts Building. The residences along Leland Street do not have direct and unobstructed views of the Pacific Ocean. Construction of the new buildings would not substantially alter existing views of the Pacific Ocean for the viewers surrounding the campus. Therefore, the Project would have no impact on scenic vistas. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

[27] City of Los Angeles, 2001. *City of Los Angeles General Plan, Conservation Element*. September 26, 2001.
[28] City of Los Angeles, 2012. *San Pedro Community Plan*. Available at: https://planning.lacity.org/cpu/SanPedro/Environmental_txt/SanPedroDraftCommunityPlan.pdf, accessed August 15, 2017.

**b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?**

**No Impact.** The California Scenic Highway Program seeks to preserve and protect areas of outstanding natural beauty that are visible from state highways. The Program EIR lists highways and corridors considered eligible for Scenic Highway Designation in Table 5.1-1. The Project site is not located within or immediately near a Scenic Highway, Byway, Route, or Corridor designated by the California Department of Transportation (Caltrans) or the Los Angeles County General Plan.[29] The nearest eligible State Scenic Highway is a segment of State Route 1 (Pacific Coast Highway) located approximately 11.1 miles east of the Project site. The nearest officially designated State Scenic Highway is State Route 2 (Angeles Crest Highway) located approximately 34.5 miles northeast of the Project site. The Project site is not observable from either of these highways. Impacts related to scenic resources within a state scenic highway would not occur. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**c) Substantially degrade the existing visual character or quality of the site and its surroundings?**

**Less than Significant Impact.** Given the historic character of the campus, incompatible architecture associated with new buildings could have an adverse impact on the visual character or quality of the Project site. While the proposed Project would not substantially alter the main views of the existing campus, specifically the historic buildings and landscapes, the construction of new buildings and open areas has the potential to conflict with the existing historic buildings and landscapes by disrupting the existing views or context of the historic buildings (through changes to the landscape or the scale, architecture, or height of the buildings) on the campus. Under the proposed Project, new and renovated buildings would be consistent with the general character of existing buildings on campus and the surrounding neighborhood in terms of architectural style, density, bulk, and setback. This consistency would be confirmed through incorporation of SC-CUL-1 and SC-CUL-2. The *Cultural Resources* section will further analyze impacts related to historical resources.

The Project site contains landscape and hardscape fronting South Leland Street and West 15th Street, that are considered significant contributors to a historic resource (San Pedro High School).[30] The character defining features of the significant (primary) landscapes would be preserved by the Project.

During Project construction, there would be standard construction equipment onsite, including small cranes, stockpiled materials, and construction-area barriers and fencing, that may negatively affect the existing visual character and quality of the Project site. However, the changes to the visual character and quality would be temporary, as the construction related equipment would be removed from the site after completion of construction activities. Further, during construction, work areas would be screened from public view and from the students of San Pedro HS through the use of temporary barriers.

[29] CalTrans, Scenic Highways, Los Angeles County. Available at: http://www.dot.ca.gov/hq/LandArch/16_livability/scenic_highways/, accessed August 15 2017.

[30] PCR Services, Character Defining- Features Memorandum (CDFM) for San Pedro High School, 1001 West 15h Street, Los Angeles, California 90731, Prepared for LAUSD, June 30, 2015.

While the new buildings would be the tallest structures on campus, they would be fully integrated with San Pedro HS in terms of scale, materials, and landscaping. The proposed Project would incorporate measures from the LAUSD School Design Guide to protect the character and quality of the site and its surroundings. Implementation of SC-AE-1 requires the consideration of architectural appearance/consistency and other aesthetic factors during the preliminary design review for school upgrades. SC-AE-1 requires that architectural quality consider compatibility with the surrounding community. Under SC-AE-1, reuse rather than destruction of historic resources is the preferred method, with the multiple goals of: 1) retaining and preserving the historic character of a building, structure, or site; treating distinctive architectural features or examples of skilled craftsmanship with sensitivity; concealing reinforcement required for structural stability or life, safety, or mechanical systems; and conducting surface cleaning of historic structures by the gentlest means possible. SC-AE-3 would also help minimize the likelihood of degraded visual character or quality during Project implementation. SC-AE-3 requires appropriate design changes to reduce or eliminate significant adverse aesthetic impacts resulting from a proposed school Project's building or site design. These design changes could include, but are not necessarily limited to, changes to the campus layout, height of buildings, and/or architectural style of buildings.

Shadow sensitive uses include all residential uses and routinely useable outdoor space associated with recreational or institutional uses (e.g., schools), commercial uses such as pedestrian-oriented outdoor spaces or restaurants associated with outdoor eating areas, nurseries, and existing solar collectors. These uses are considered sensitive because sunlight is important to function, physical comfort, or commerce. Shade sensitive uses in the Project vicinity are Dana Middle School to the east and residential uses located to the north, west and south across West 14th Street, West 15th Street, South Leland Street, and West 17th Street, respectively. The proposed new buildings would not cause shadows to extend offsite in such a manner as to significantly impact nearby significant school or residential uses. Implementation of SC-CUL-1, SC-CUL-2, SC-AE-1, and SC-AE-2 would ensure that impacts to visual character or quality would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**d) Create a new source of substantial light or glare which would adversely affect daytime or nighttime views in the area?**

**Less than Significant Impact**. The proposed Project would result in less than significant impacts related to light and glare for the following reasons.

#### 4.1.2.1 LIGHT

The campus contains two primary sources of light: light emanating from building interiors that passes through windows and light from exterior sources (e.g., parking lot lighting, building illumination, security lighting, and landscape lighting). Depending upon the location of the light source and its proximity to adjacent light-sensitive use, light introduction can be a nuisance, affecting adjacent areas and further diminishing the view of the clear night sky in an urban setting like the Project site. Light spillage is typically defined as unwanted illumination from light fixtures on adjacent properties.

The Project site is located within a residential area. Existing lighting conditions in the Project area include light emanating from the existing campus building interiors, security lights and the surrounding residential land uses, as well as nearby street lighting. There are residential uses located north, south, and west of the Project site. Further, Dana Middle School is located just east of the Project site.

The perimeter of the proposed buildings would have new light fixtures attached to exterior walls. All entries would be illuminated to provide safe access. The parking lots to the southwest and northeast of the Project site would also have security lighting on poles, that would be focused and shielded downward to reduce glare and light spillover. The Project's proposed landscaping, parking and security lighting is expected to be similar to current conditions. Design features listed in SC-AE-7 and SC-AE-8 such as hoods and filtering louvers would be incorporated to ensure that these new sources would not create light spill over greater than 2 foot- candles onto adjacent residences and properties. Outdoor lighting of architectural and landscape features and interior lighting would be designed to minimize light trespass to the outside from the interior. Further, site lighting would be designed to have minimal off site impact and contribution to sky glow. Implementation of SC-AE-7 and SC-AE-8 would ensure that impacts from site lighting would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

#### 4.1.2.2 GLARE

Buildings with large facades constructed of reflective surfaces (e.g., brightly colored building façades, metal surfaces, and reflective glass) could increase existing levels of daytime glare. The proposed facilities would be constructed with limited high-glare materials. As described above, LAUSD Standard Conditions SC-AE-6 and SC-AE-7 provide measures and performance standards to reduce glare impacts to pedestrians, residences, drivers and sports teams. Given the minimal use of high-glare materials, impacts from reflective glare would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

# 4.2 AGRICULTURE AND FORESTRY RESOURCES

| | Potentially Significant Impact | Less Than Significant with Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| **II. AGRICULTURE AND FORESTRY RESOURCES.** In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. -- Would the Project: | | | | |
| a. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance, as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use? | ☐ | ☐ | ☐ | ☒ |
| b. Conflict with existing zoning for agricultural use, or a Williamson Act Contract? | ☐ | ☐ | ☐ | ☒ |
| c. Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526) or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))? | ☐ | ☐ | ☐ | ☒ |
| d. Result in the loss of forest land or conversion of forest land to non-forest use? | ☐ | ☐ | ☐ | ☒ |
| e. Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use? | ☐ | ☐ | ☐ | ☒ |

### 4.2.1 Impact Analysis

Would the Project:

**a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?**

**No Impact.** The Project site is currently developed and void of any agricultural uses. The California Department of Conservation Important Farmland Map for Los Angeles identified the Project site as urban and built-up land. Further, there is no Prime Farmland, Unique Farmland, or Farmland of Statewide Importance located adjacent to the Project site.[31] Therefore, no impact to Prime Farmland, Unique Farmland, or Farmland of Statewide Importance would occur. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?**

**No Impact.** A Williamson Act Contract requires private landowners to voluntarily restrict their land to agriculture and compatible open-space uses. The Project site is void of agricultural uses and does not include land enrolled in a Williamson Act Contract.[32] Therefore, no impact would occur regarding conversion of existing agriculture uses or Williamson Act contracts. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?**

**No Impact.** The proposed Project would not conflict with existing zoning of forest land or cause rezoning of forest land, timberland, or timberland zoned for Timberland Production. The Project area is currently zoned as [Q]PF-1XL. The proposed Project does not involve any changes to current General Plan land use or zoning designations for forest land, or timberland. Additionally, there are no timberland-zoned production areas within the Project site or surrounding areas. Therefore, no impact to forest land or timberland would occur. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

[31] California Department of Conservation (CDC), 2017. California Important Farmland Finder. Available at: http://maps.conservation.ca.gov/ciff/ciff.html, accessed August 15, 2017.
[32] CDC, *2016.Los Angeles County Williamson Act FY 2016*/2016 Map. 2016.

**d) Result in the loss of forest land or conversion of forest land to non-forest use?**

**No Impact.** The Project site and surrounding areas contain no forest land. Thus, implementation of the proposed Project would result in no impacts related to the loss or conversion of forest land to non-forest use. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?**

**No Impact.** Refer to previous responses. The Project site is developed with school facilities and impervious surfaces. No changes to the existing environment would occur from implementation of the proposed Project that could result in conversion of farmland to nonagricultural use or forest land to non-forest use. Thus, no impact would occur. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

# 4.3 AIR QUALITY

| | Potentially Significant Impact | Less Than Significant with Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| **III. AIR QUALITY.** Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the Project: | | | | |
| a. Conflict with or obstruct implementation of the applicable air quality plan? | ☒ | ☐ | ☐ | ☐ |
| b. Violate any air quality standard or contribute substantially to an existing or Projected air quality violation? | ☒ | ☐ | ☐ | ☐ |
| c. Result in a cumulatively considerable net increase of any criteria pollutant for which the region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)? | ☒ | ☐ | ☐ | ☐ |
| d. Expose sensitive receptors to substantial pollutant concentrations? | ☒ | ☐ | ☐ | ☐ |
| e. Create objectionable odors affecting a substantial number of people? | ☐ | ☐ | ☒ | ☐ |

## 4.3.1 Discussion

The Program EIR includes SCs for reducing impacts to air quality in areas where future Projects would be implemented under the SUP. Applicable SCs related to Project air quality impacts are provided in **Table 4.3-1**, below.

**TABLE 4.3-1**
**AIR QUALITY STANDARD CONDITIONS OF APPROVAL**

| Applicable SCs | Description |
|---|---|
| SC-AQ-2 | LAUSD's construction contractor shall ensure that construction equipment is properly tuned and maintained in accordance with manufacturer's specifications, to ensure excessive emissions are not generated by unmaintained equipment. |
| SC-AQ-3 | LAUSD's construction contractor shall:<br>• Maintain slow speeds with all vehicles.<br>• Load impacted soil directly into transportation trucks to minimize soil handling.<br>• Water/mist soil as it is being excavated and loaded onto the transportation trucks.<br>• Water/mist and/or apply surfactants to soil placed in transportation trucks prior to exiting the site.<br>• Minimize soil drop height into transportation trucks or stockpiles during dumping.<br>• During transport, cover or enclose trucks transporting soils, increase freeboard requirements, and repair trucks exhibiting spillage due to leaks. |

| | |
|---|---|
| | • Cover the bottom of the excavated area with polyethylene sheeting when work is not being performed.<br>• Place stockpiled soil on polyethylene sheeting and cover with similar material.<br>• Place stockpiled soil in areas shielded from prevailing winds. |
| SC-AQ-4 | LAUSD shall prepare an air quality assessment:<br>If site-specific review of a school construction Project identifies potentially significant adverse regional and localized construction air quality impacts, then LAUSD shall implement all feasible measures to reduce air emissions below the SCAQMD regional and localized significance thresholds.<br>LAUSD shall mandate that construction bid contracts include the measures identified in the air quality assessment. Measures shall reduce construction emissions during high-emission construction phases from vehicles and other fuel driven construction engines, activities that generate fugitive dust, and surface coating operations. Specific air emission reduction measures include, but are not limited to, the following:<br><u>Exhaust Emissions</u><br>• Schedule construction activities that affect traffic flow to off-peak hours (e.g. between 10:00 AM and 3:00 PM).<br>• Consolidate truck deliveries and/or limit the number of haul trips per day.<br>• Route construction trucks off congested streets.<br>• Employ high pressure fuel injection systems or engine timing retardation.<br>• Utilize ultra-low sulfur diesel fuel, containing 15 ppm sulfur or less (ULSD) in all diesel construction equipment.<br>• Use construction equipment rated by the United States Environmental Protection Agency as having Tier 3 (model year 2006 or newer) or Tier 4 (model year 2008 or newer) emission limits for engines between 50 and 750 horsepower.<br>• Restrict non-essential diesel engine idle time, to not more than five consecutive minutes.<br>• Utilize electrical power rather than internal combustion engine power generators as soon as feasible during construction.<br>• Utilize electric or alternatively fueled equipment, if feasible.<br>• Utilize construction equipment with the minimum practical engine size.<br>• Utilize low-emission on-road construction fleet vehicles.<br>• Ensure construction equipment is properly serviced and maintained to the manufacturer's standards.<br><br><u>Fugitive Dust</u><br>• Apply non-toxic soil stabilizers according to manufacturers' specification to all inactive construction areas (previously graded areas inactive for ten days or more).<br>• Replace ground cover in disturbed areas as quickly as possible.<br>• Sweep streets at the end of the day if visible soil material is carried onto adjacent public paved roads (recommend water sweepers with reclaimed water).<br>• Install wheel washers where vehicles enter and exit unpaved roads onto paved roads, or wash off trucks and any equipment leaving the site each trip.<br>• Pave construction roads that have a traffic volume of more than 50 daily trips by construction equipment, and/or 150 daily trips for all vehicles.<br>• Pave all construction access roads for at least 100 feet from the main road to the Project site.<br>• Water the disturbed areas of the active construction site at least three times per day, except during periods of rainfall.<br>• Enclose, cover, water twice daily, or apply non-toxic soil binders according to manufacturers' specifications to exposed piles (i.e., gravel, dirt, and sand) with a five percent or greater silt content.<br>• Suspend all excavating and grading operations when wind speeds (as instantaneous gusts) exceed 25 miles per hour (mph).<br>• Apply water at least three times daily, except during periods of rainfall, to all unpaved road surfaces.<br>• Limit traffic speeds on unpaved road to 15 mph or less.<br>• Prohibit high emission causing fugitive dust activities on days where violations of the ambient air quality standard have been forecast by SCAQMD.<br>• Tarp and/or maintain a minimum of 24 inches of freeboard on trucks hauling dirt, sand, soil, or other loose materials.<br>• Limit the amount of daily soil and/or demolition debris loaded and hauled per day.<br><br><u>General Construction</u><br>• Utilize ultra-low VOC or zero-VOC surface coatings. |

- Phase construction activities to minimize maximum daily emissions.
- Configure construction parking to minimize traffic interference.
- Provide temporary traffic control during construction activities to improve traffic flow (e.g., flag person).
- Develop a trip reduction plan for construction employees.
- Implement a shuttle service to and from retail services and food establishments during lunch hours.
- Increase distance between emission sources to reduce near-field emission impacts.
- Require construction contractors to document compliance with the identified mitigation measures.

## 4.3.2 Impact Analysis

Would the Project:

**a) Conflict with or obstruct implementation of the applicable air quality plan?**

**Potentially Significant Impact**. The Project site is located within the South Coast Air Basin (SoCAB), which is under the jurisdiction of the SCAQMD. The SoCAB is a 6,600-square-mile coastal plain bounded by the Pacific Ocean to the southwest and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east.

Therefore, SCAQMD's 2016 AQMP[33] is the applicable air quality plan for the proposed Project. The Draft EIR will provide a more in depth consistency analysis related to the City's General Plan and applicable air quality plans and will describe potential effects associated with any inconsistencies.

**b) Violate any air quality standard or contribute substantially to an existing or Projected air quality violation?**

**Potentially Significant Impact.** The Draft EIR will identify applicable air quality standards and the federal and state attainment status for pollutants within the SoCAB. The Draft EIR will also include an analysis of the estimated emissions associated with construction and operation of the proposed Project, and will also include an analysis of cumulative impacts associated with emissions of criteria pollutants.

**c) Result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is in non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?**

**Potentially Significant Impact.** A significant impact would occur if implementation of the proposed Project resulted in a cumulative net increase in any criteria pollutant above the SCAQMD significance threshold. The SCAQMD's approach for assessing cumulative air quality impacts is based on the AQMP forecasts of attainment of ambient air quality standards in accordance with the requirements of the federal and state Clean

[33] SCAQMD, 2016. *Final Air Quality Management Plan.* Available at: http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2016-air-quality-management-plan/final-2016-aqmp/final2016aqmp.pdf?sfvrsn=15, accessed August 10, 2017.

Air Acts. The Draft EIR will identify applicable air quality standards and the federal and state attainment status for pollutants within the SoCAB. The Draft EIR will also include an analysis of the estimated emissions associated with construction and operation of the proposed Project, and will also include an analysis of cumulative impacts associated with emissions of criteria pollutants.

**d) Expose sensitive receptors to substantial pollutant concentrations?**

**Potentially Significant Impact.** Sensitive receptors include residences, schools, playgrounds, childcare centers, athletic facilities, churches, long-term health care facilities, rehabilitation centers, convalescent centers, and retirement homes. The Project site is an active school site surrounded by residential uses and Dana Middle School. Mitigation measures for diesel equipment and dust control that are recommended by SCAQMD will be evaluated as part of the Draft EIR to avoid or reduce the impacts to construction workers and occupants of nearby residents, if necessary.

**e) Create objectionable odors affecting a substantial number of people?**

**Less Than Significant Impact.** Potential sources that may emit odors during construction activities include equipment exhaust and architectural coatings. Odors from these sources would be localized and generally confined to the Project site. Development of the proposed Project would utilize typical construction techniques, and the odors would be typical of most construction sites. Additionally, the odors would be temporary, and construction activity would be required to comply with SC-AQ-2 through SC-AQ-4, and SCAQMD Rules 402 and 1113.15. Therefore, the proposed Project would result in less-than-significant impacts associated with odor nuisance.

According to the SCAQMD *CEQA Air Quality Handbook*, land uses that are associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding.[34] The proposed Project would not include any of these odor-producing uses; odors associated with Project operation will be limited to on-site waste generation and disposal and occasional minor odors generated during food preparation activities for the on-site food service operations. Furthermore, all trash receptacles would be covered and properly maintained to minimize odors and would be emptied on a regular basis. Therefore, implementation of the proposed Project would not generate objectionable odors affecting a substantial number of people. Impacts related to odors would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

[34] SCAQMD, 2014. *CEQA Air Quality Handbook*. Available at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook, accessed August 10, 2017.

# 4.4 BIOLOGICAL RESOURCES

| | Potentially Significant Impact | Less Than Significant with Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| **IV. BIOLOGICAL RESOURCES.** Would the Project: | | | | |
| a. Have a substantial adverse effect, either directly or through habitat modification, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations by the California Department of Fish and Game or U.S. Fish and Wildlife Service? | ☐ | ☐ | ☐ | ☒ |
| b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in the City or regional plans, policies, regulations by the California Department of Fish and Game or U.S. Fish and Wildlife Service? | ☐ | ☐ | ☐ | ☒ |
| c. Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh vernal pool, coastal, etc.) Through direct removal, filling, hydrological interruption, or other means? | ☐ | ☐ | ☐ | ☒ |
| d. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites? | ☐ | ☐ | ☒ | ☐ |
| e. Conflict with any local policies or ordinances protecting biological resources, such as tree preservation policy or ordinance (e.g., oak trees or California walnut woodlands)? | ☐ | ☐ | ☒ | ☐ |
| f. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan? | ☐ | ☐ | ☐ | ☒ |

## 4.4.1 Discussion

The analysis below is based in part on the Tree Inventory[35] prepared for the proposed Project (Appendix B).

The Program EIR includes SCs for minimizing project impacts to biological resources of the existing environment. Applicable SCs related to biological resource impacts associated with the proposed Project are provided in **Table 4.4-1**.

[35] Carlberg Associates, 2017. *Tree Inventory and Tree Location Exhibit at San Pedro High School.* Prepared for LPA, Inc. February 27, 2017.

**TABLE 4.4-1**
**BIOLOGICAL RESOURCES STANDARD CONDITIONS OF APPROVAL**

| Applicable SCs | Description |
|---|---|
| SC-BIO-1 | LAUSD qualified biologist shall identify sensitive species and their habitat within or near proposed Project site. LAUSD will conduct a literature search, which shall consider a one-mile radius beyond the Project construction site and shall be performed by a qualified biologist with knowledge of local biological conditions as well as the use and interpretation of the data sources identified below. Where appropriate, in the opinion of the biologist, the literature search shall be supplemented with a site visit and/or aerial photo analysis. Resources and information that shall be investigated for each site should include, but not be limited to:<br>• USFWS<br>• National Marine Fisheries Services (NMFS)<br>• CDFW<br>• California Native Plant Society (CNPS)<br>• County and/or city planning or environmental offices for sensitive species, habitat, and/or heritage trees that may not exist on published databases.<br>• CNDDB<br>• CNPS Rare Plant Inventory<br>• Local Audubon Society<br>• Los Angeles County Department of Regional Planning for information on Significant Ecological Areas<br>• California Digital Conservation Atlas for district-wide location of reserves, plan areas, and land trusts that may overlap with Project sites.<br>Biological Resources Report<br>If the LAUSD qualified biologist determines that a school construction Project will affect an identified sensitive plant, animal, or habitat, a biological resources report shall be prepared. To provide a complete assessment of the flora and fauna within and adjacent to a site-specific Project impact area, with particular emphasis on identifying endangered, threatened, sensitive, and locally unique species and sensitive habitats, the biological resources report shall include the following.<br>• Information on regional setting that is critical to the assessment of rare or unique resources<br>• A thorough, recent floristic-based assessment of special status plans and natural communities, following the CDFW's Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities. CDFW recommends that floristic, alliance- and/or association-based mapping and vegetation impact assessments be conducted at the Project site and neighboring vicinity. The Manual of California Vegetation (Sawyer et al.) should also be used to inform this mapping and assessment. Adjoining habitat areas should be included in this assessment where site activities could lead to direct or indirect6 impacts offsite. Habitat mapping at the alliance level will help establish baseline vegetation conditions.<br>• A current inventory of the biological resources associated with each habitat type onsite and within the area of potential effect. CDFW's California Natural Diversity Data Base (CNDDB) should be contacted to obtain current information on any previously reported sensitive species and habitat, including Significant Natural Areas identified under Chapter 12 of the Fish and Game Code.<br>• An inventory of rare, threatened, and endangered, and other sensitive species onsite and within the area of potential effect. Species to be addressed should include all those identified in CEQA Guidelines Section 15380, including sensitive fish, wildlife, reptile, and amphibian species. Seasonal variations in use of the Project area should also be addressed. Focused species-specific surveys, conducted at appropriate time of year and time of day when sensitive species are active or otherwise identifiable, are required. Acceptable species-specific survey procedures should be developed in consultation with the CDFW and USFWS.<br>• A discussion of the potential adverse impacts from light, noise, human activity, exotic species, and drainage. Drainage analysis should address Project-related changes on drainage patterns on and downstream from the site; the volume, velocity, and frequency of existing and post- Project surface flows; polluted runoff; soil erosion and/or sedimentation in streams and water bodies; and post-Project fate of runoff from the Project site. |

| | |
|---|---|
| | • Discussions about direct and indirect Project impacts on biological resources, including resources in nearby public lands, open space, adjacent natural habitats, wetland and riparian ecosystems, and any designated and/or proposed or existing reserve lands (e.g., preserve lands associated with a NCCP). Impacts on, and maintenance of, wildlife corridor/movement areas, including access to undisturbed habitats in adjacent areas.<br>• Mitigation measures for adverse Project-related impacts to sensitive plants, animals, and habitats. Measures should emphasize avoidance and reduction of biological impacts. For unavoidable impacts, onsite habitat restoration or enhancement should be outlined. If onsite measures are not feasible or would not be biologically viable, offsite measures through habitat creation and/or acquisition and preservation in perpetuity should occur. This measure should address restrictions on access, proposed land dedications, monitoring and management programs, control of illegal dumping, water pollution, increased human intrusion, etc.<br>• Plans for restoration and vegetation shall be prepared by qualified biologist with expertise in southern California ecosystems and native plant vegetation techniques. Plans shall include, at a minimum:<br>- location of the mitigation site<br>- plant species to be used, container sizes, and seeding rates<br>- schematic depicting the mitigation area<br>- planting schedule<br>- irrigation method<br>- measures to control exotic vegetation<br>- specific success criteria<br>- detailed monitoring program<br>- contingency measures should the success criteria not be met<br>- identification of the party responsible for meeting the success criteria and providing for conservation of the site in perpetuity.<br>LAUSD shall consult with the U.S. Army Corps of Engineers, USFWS and/or the CDFW and comply with any permit conditions or directives from those agencies regarding the protection, relocation, creation, and/or compensation. |
| SC-BIO-2 | LAUSD shall protect sensitive species from harmful exposure to light by shielding light sources, redirecting light sources, or using low intensity lighting. |
| SC-BIO-3 | LAUSD shall comply with the following:<br>• Project activities (including, but not limited to, staging and disturbances to native and nonnative vegetation, structures, and substrates[36]) should occur outside of avian breading season to avoid take of birds or their eggs.[37] Depending on the avian species present, a qualified biologist may determine that a change in the breeding season dates is warranted.<br>• If avoidance of the avian breeding season is not feasible, beginning 30 days prior to the initiation of the Project activities, a qualified biologist with experience in conducting breeding bird surveys shall conduct weekly bird surveys to detect protected native birds occurring in suitable nesting habitat that is to be disturbed and (as access to adjacent areas allows) any other such habitat within 300 feet of the disturbance area (within 500 feet for raptors). The surveys shall continue on a weekly basis with the last survey being conducted no more than three days prior to the initiation of Project activities. If a protected native bird is found, LAUSD shall delay all Project activities within 300 feet of the suitable nesting habitat (within 500 feet for suitable raptor nesting habitat) until August 31. Alternatively, the qualified biologist could continue the surveys in order to locate any nests. If an active nest is located, Project activities within 300 feet of the nest (within 500 feet for raptor nests), or as determined by a qualified biologist, shall be postponed until the nest is vacated and juveniles have fledged and there is no evidence of a second attempt at nesting. Flagging, stakes, and/or construction fencing shall be used to demarcate the inside boundary of the 300- or 500-foot buffer between the Project activities and the nest. Project personnel, including all contractors working on site, shall be instructed on the sensitivity of the area. LAUSD shall provide results |

[36] Substrate is the surface on which a plant or animal lives.

[37] Take means to hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture or kill (Fish and Game Code Section 86), and includes take of eggs and/or young resulting from disturbances that cause abandonment of active nests.

| | |
|---|---|
| | of the recommended protective measures to document compliance with applicable State and Federal laws pertaining to the protection of native birds.<br>• If the qualified biologist determines that a narrower buffer between the Project activities and observed active nests is warranted, a written explanation as to why (e.g., species-specific information; ambient conditions and birds' habituation to them; and the terrain, vegetation, and birds' lines of sight between the Project activities and the nest and foraging areas) shall be submitted to LAUSD OEHS Project manager. Construction contractors can then reduce the demarcated buffer.<br>• No construction shall occur within the fenced next zone until the young have fledged, are no longer being fed by the parents, have left the nest, and will no longer by impacted the construction.<br>• A biological monitor shall be present on site during all grubbing and clearing of vegetation to ensure that these activities remain outside the demarcated buffer and that the flagging, stakes, and/or construction fencing are maintained, and to minimize the likelihood that active nests are abandoned or fail due to Project activities. The biological monitor shall send weekly monitoring reports to LAUSD OEHS Project manager during the grubbing and clearing of vegetation, and shall notify LAUSD immediately if Project activities damage avian nests. |
| SC-BIO-4 | LAUSD shall comply with the following:<br>• Mitigation shall not include translocation of rare plants. CDFW, in most cases does not recommend translocation, salvage, and/or transplantation of rare, threatened, or endangered plant species, in particular oak trees, as compensation for adverse effects because successful implementation of translocation is rare. Even if translocation is initially successful, it will typically fail to persist over time.<br>• **Permanent conservation of habitat.** To ensure the conservation of sensitive plant species, the preferred method is permanent conservation of habitat containing these species; any translocation proposed shall only be an experimental component of a larger, more robust plan.<br>• **Off-site acquisition of woodland habitat.** Due to the inherent difficulty in creating functional woodland habitat with associated understory components, the preferred method is off-site acquisition of woodland habitat in the local area. All acquired habitat shall be protected under a conservation easement and deeded to a local land conservancy for management and protection.<br>• **Creation of oak woodlands.** Any creation of functioning woodlands shall be of similar composition, structure, and function of the affected oak woodland. The new woodland shall mimic the function, demonstrate recruitment, plant density, and percent basil, canopy, and vegetation cover, as well as other measurable success criteria before the measure is deemed a success.<br>- All seed and shrub sources used for tree and understory species in the new planting site shall be collected or grown from on-site sources or from adjacent areas and shall not be purchased from a supplier. This method should reduce the risk of introducing diseases and pathogens into areas where they might not currently exist.<br>- Oaks should be replaced by planting acorns because this has been shown to result in greater oak survival. Monitoring efforts, including the exclusion of herbivores, shall be employed to maximize seedling survival during the monitoring period.<br>- Monitoring period for oak woodland shall be at least 10 years with a minimum of seven years without supplemental irrigation. This allows the trees to go through one typical drought cycle. This should also be the minimal time needed to see signs of stress and disease and determine the need for replacement plantings.<br>LAUSD shall request CDFW review and comment on any translocation plans, habitat preservation, habitat creation and/or restoration plans. |
| SC-BIO-5 | LAUSD shall comply with CDFW recommendations as listed below:[38]<br>• Project development or conversion that results in a reduction of wetland acreage or wetland habitat values shall not occur unless, at a minimum, replacement or preservation results in "no net loss" of either wetland habitat values or acreage. |

[38] Recommendations as listed in CDFW SUP Draft EIR comment letter dated August 4, 2014.

- All wetlands and watercourses, whether intermittent or perennial, should be retained and provided with substantial setbacks which preserve the riparian and aquatic values and maintain their value to on-site and off-site wildlife populations.
- A jurisdictional delineation of creeks and their associated riparian habitats shall be conducted as part of the biological resources report. The delineation should be conducted pursuant to the USFWS wetland definition.

Implementation of recommended measures shall compensate for affected mature riparian corridors and loss of function and value of wildlife corridors.

## 4.4.2 Description of Baseline Conditions

The Project site is an active high school campus that has been previously disturbed, cleared of native vegetation, and currently contains school buildings, facilities, and scattered landscaped vegetation. A tree inventory was completed for the proposed Project.[39] The survey inventoried 149 trees within and along the boundaries of the Project site. There are no protected trees on the campus. A total of 121 trees would be removed within the Project site and 2 street trees would be removed.

The trees (and buildings and structures) on the campus have the potential to serve as nesting sites for birds and bats; however, the Project site is located in a highly urbanized area of the City of Los Angeles. The campus has been fully developed and does not contain any habitat to support candidate, sensitive, or special-status species; riparian habitat; or other natural habitats such as wetlands. Special-status plant and wildlife species are those that are candidates, proposed or listed as threatened or endangered by the United States Fish and Wildlife Service (USFWS) or the California Department of Fish and Wildlife (CDFW), and plant species that are considered sensitive by the California Native Plant Society (CNPS). According to a CDFW California Natural Diversity Database (CNDDB) search of the San Pedro, California USGS 7.5-minute topographic quadrangle map, and surrounding 3 quads, there are 9 species in the vicinity of the Project site that are considered special-status by local, state, and federal agencies (Appendix C). However, the Project site does not contain suitable habitat necessary to support special-status wildlife species. To manage the preservation of these species, and the more than 180 species identified as threatened or endangered by the City of Los Angeles General Plan, Significant Ecological Areas (SEAs) have been identified throughout the City on the basis of existing known habitats of sensitive or endangered species. The Project site is not located within a SEA and the nearest SEA is Palos Verdes Peninsula and Coastline SEA, which is located approximately 1.65 miles west of the Project site.[40]

[39] Ibid.

[40] Los Angeles County Department of Regional Planning, 2017. Planning and Zoning Information, GIS-Net 3. SEA Layer. Available at: http://gis.planning.lacounty.gov/GIS-NET3_Public/Viewer.html, accessed August 16, 2017.

## 4.4.3 Impact Analysis

Would the Project:

**a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?**

**No Impact**. The Project site is located on an active high school campus that contains no native vegetation capable of supporting any special-status plant or wildlife species. The Project site is entirely developed and surrounded by residential development to the north, west, and south and Dana Middle school to the east. The Project site and immediate area are not within a SEA. The Project site does not contain any species that are identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or protected by the CDFW or USFWS (Appendix C).[41] The likelihood of species dispersal, whether plants or wildlife, from surrounding areas to the Project site is extremely low. Therefore, the Project would have no impact on special-status species. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?**

**No Impact**. The Project site does not contain any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the CDFW or USFWS. The Project site is entirely developed and does not contain any natural drainages or water courses, which would potentially support riparian habitat, or natural undeveloped areas that may contain any other sensitive natural community. Therefore, there would be no impact. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?**

**No Impact.** Generally, the entire school campus is developed with buildings, parking lots, hardscape including walkways and hardcourts, and landscaped areas including playfields. The Project site does not contain any federally protected wetlands as defined by Section 404 of the Clean Water Act (including but not limited to, marsh, vernal pool, coastal etc.). Additionally, no wetlands protected by CDFW and/or the RWQCB occur on the Project site. The Project site is entirely developed and does not contain any waterways or undeveloped land capable of supporting federally protected wetlands. Therefore, no impact to wetlands would occur through

[41] CDFW, California Natural Diversity Database. 2017.

direct removal, filling, hydrological interruption or other means. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?**

**Less than Significant Impact**. The Project site does not contain any water courses or greenbelts for wildlife movement, or native vegetation and undeveloped land capable of supporting fish or the movement of wildlife, particularly corridors that facilitate movement of species between larger stands of native habitat. The nearest identified habitat linkage occurs in the Palos Verdes Peninsula, 1.65 miles west of the Project site, outside the potential impact area for the proposed Project. Therefore, the proposed Project would have no impact on the movement of any wildlife species or impede the use of migratory wildlife corridors.

Tree removal and building demolition may have the potential to disrupt birds that are nesting in the trees or buildings during breeding season (February 1 through August 31). Construction related noise and vibration also have the potential to disrupt birds during the avian breeding season. Additionally, the Project site contains buildings that may be used by bats as nursery sites during the bat maternity roosting season of March through August. Therefore, construction activities (including demolition) have the potential to impact nesting birds or maternity roosting bats. However, the proposed Project would implement SC-BIO-3 as necessary. Following the completion of a pre-construction clearance survey, implementation of SC-BIO-3 would reduce impacts to less than significant. These measures include commencing tree removal and demolition activities outside of avian nesting season and bat maternity roosting season. The proposed Project would result in less than significant impacts and this issue will not be further analyzed in the Draft EIR.

**e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?**

**Less Than Significant Impact.** The Project site is located within an entirely developed area surrounded by residential and public uses within the City of Los Angeles and is not located within any SEA protecting biological resources.[42] Further, there are no trees on the Project site that are protected by the City of Los Angeles Tree Preservation Ordinance. Therefore, no impacts regarding compliance with the City of Los Angeles Tree Preservation Ordinance would occur and this issue will not be further analyzed in the Draft EIR.

**f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?**

**No Impact**. The Project site is not located within a Habitat Conservation Plan (HCP), Natural Community Conservation Plan (NCCP), or similar plan.[43] The closest area protected by a HCP or NCCP is the City of

[42] Ibid.
[43] CDFW, 2017. California Regional Conservation Plans. Available at: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=68626&inline, accessed August 16, 2017.

Rancho Palos Verdes, located approximately 4.8 miles west of the Project site. The Project site is not located within or proximate to any SEA, Land Trust, or Conservation Plan. Therefore, no impact resulting from a conflict with an adopted conservation plan would occur. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

# 4.5 CULTURAL RESOURCES

| | Potentially Significant Impact | Less Than Significant with Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| **V. CULTURAL RESOURCES:** Would the Project: | | | | |
| a. Cause a substantial adverse change in significance of a historical resource as defined in State CEQA Section15064.5? | ☒ | ☐ | ☐ | ☐ |
| b. Cause a substantial adverse change in significance of an archaeological resource pursuant to State CEQA Section15064.5? | ☒ | ☐ | ☐ | ☐ |
| c. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature? | ☒ | ☐ | ☐ | ☐ |
| d. Disturb any human remains, including those interred outside of dedicated cemeteries? | ☐ | ☐ | ☒ | ☐ |

## 4.5.1 Impact Analysis

Would the Project:

**a) Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5?**

**Potentially Significant Impact.** The Project site is developed and paved. During the 1994 FEMA Survey, San Pedro HS was assigned a California Historical Resource Status Code of 2S2, which means the campus is listed in the California Register and appears eligible for National Register through survey evaluation.[44] A historic resources technical report and cultural resources analysis will be prepared as part of the Draft EIR, which will identify any historic resources within the Project site and surrounding area. The Draft EIR will evaluate the potential for implementation of the Project to substantially change the significance of all on-site eligible historical resources, including the Historic District that exists when these resources are taken as a whole.

**b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?**

**Potentially Significant Impact.** While the Project is disturbed due to prior development, demolition, and redevelopment, ground disturbing activities associated with construction of the Project could result in the inadvertent discovery of unknown archaeological resources. A cultural resources analysis, including a records search, will be prepared as part of the Draft EIR. The Draft EIR will identify any known archaeological

[44] PCR Services, Character Defining- Features Memorandum (CDFM) for San Pedro High School, 1001 West 15h Street, Los Angeles, California 90731, Prepared for LAUSD, June 30, 2015.

resources within the Project site or within the surrounding area as well as evaluate potential impacts to these resources from development of the Project, if any.

**c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?**

**Potentially Significant Impact.** Ground disturbing activities, such as excavation or trenching, during construction of the Project could have the potential to encounter the undisturbed alluvium soils, which have the potential to contain unknown paleontological resources. The Draft EIR will describe in greater detail the paleontological setting of the Project area and will evaluate the potential for impacts to paleontological resources associated with construction of the Project.

**d) Disturb any human remains, including those interred outside of dedicated cemeteries.**

**Less than Significant Impact.** No known cemeteries or other burial places are known to exist within the Project site and the proposed Project is unlikely to disturb human remains. However, because the proposed Project would involve ground disturbing activities, it is possible that such actions could unearth, expose, or disturb previously unknown human remains. In the event that human remains are encountered, the District would comply with State Health and Safety Code Section 7050.5 and PRC Section 5097.98 resulting in a less than significant impact. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

# 4.6 GEOLOGY AND SOILS

| | Potentially Significant Impact | Less Than Significant with Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| **VI. GEOLOGY AND SOILS.** Would the Project: | | | | |
| a. Expose people or structures to potential substantial adverse effects, including the risk of loss, injury or death involving : | | | | |
| i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42. | ☐ | ☐ | ☐ | ☒ |
| ii. Strong seismic ground shaking? | ☐ | ☐ | ☒ | ☐ |
| iii. Seismic-related ground failure, including liquefaction? | ☐ | ☐ | ☐ | ☒ |
| iv. Landslides? | ☐ | ☐ | ☒ | ☐ |
| b. Result in substantial soil erosion or the loss of topsoil? | ☐ | ☐ | ☒ | ☐ |
| c. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the Project, and potential result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse? | ☐ | ☐ | ☒ | ☐ |
| d. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property? | ☐ | ☐ | ☒ | ☐ |
| e. Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water? | ☐ | ☐ | ☐ | ☒ |

## 4.6.1 Discussion

The following evaluation of geology and soils is based, in part, on the Comprehensive Geotechnical Report prepared for the Project site in November 2016.[45] The Comprehensive Geotechnical Report evaluated geologic and soil conditions at and in the immediate vicinity of the proposed Project site. The report is presented as Appendix D of this IS.

The Program EIR includes SCs for minimizing impacts to geology and soils of the existing environment in areas where future Projects would be implemented under the SUP. Applicable SCs related to geology and soils impacts associated with the proposed Project are provided in **Table 4.6-1**.

[45] Group Delta, 2016. Comprehensive Geotechnical Report, Campus Modernization and Retrofit, San Pedro High School, 1001 West 15th Street, Los Angeles, CA. November 4, 2016.

**TABLE 4.6-1**
**GEOLOGY AND SOILS STANDARD CONDITIONS OF APPROVAL**

| Applicable SCs | Description |
|---|---|
| SC-GEO-1 | **OEHS CEQA Specification Manual, Appendix G, Supplemental Geohazard Assessment Scope of Work.**<br>This document outlines the procedures and scope for LAUSD geohazard assessments. |
| SC-HWQ-1 | **Stormwater Technical Manual**<br>This manual establishes design requirements and provides guidance for the cost-effective improvement of water quality in new and significantly redeveloped LAUSD school sites. These guidelines are intended to improve water quality and mitigate potential impacts to the Maximum Extent Practicable (MEP). While these guidelines meet current post-construction Standard Urban Stormwater Mitigation Plan (SUSMP) requirements. The guidelines address the mandated post-construction element of the NPDES program requirements |
| SC-HWQ-2 | **Compliance Checklist for Storm Water Requirements at Construction Sites.**<br>This checklist has requirements for compliance with the General Construction Activity Permit and is used by OEHS to evaluate permit compliance. Requirements listed include a SWPPP; BMPs for minimizing storm water pollution to be specified in a SWPPP; and monitoring storm water discharges to ensure that sedimentation of downstream waters remains within regulatory limits. |

## 4.6.2 Impact Analysis

Would the Project:

**a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:**

**i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? (Refer to Division of Mines and Geology Special Publication 42.)**

**No Impact.** The Alquist-Priolo Earthquake Fault Zoning Act requires the delineation of zones along active faults in California. The purpose of the Alquist-Priolo Act is to regulate development and prohibit construction on or near active fault traces to reduce hazards associated with fault rupture. The Alquist-Priolo Earthquake Fault Zones are the regulatory zones that include surface traces of active faults. There are no active faults crossing the Project site, and the Project site is not located within an Alquist-Priolo Earthquake Fault Zone. The closest historically active surface fault is the Cabrillo Fault offshore segment located two miles south of the Project site.[46] Therefore, there would be no impact associated with rupture of a known earthquake fault. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**ii) Strong seismic ground shaking?**

**Less than Significant Impact.** The Project site is located in a seismically active region. The City, as with all of Southern California, is subject to strong ground shaking. The closest historically active surface faults are the

[46] Ibid.

northwest trending Cabrillo and Palos Verdes Faults, located less than two miles to the south and northwest, respectively. Additionally, the Newport-Inglewood Fault is located approximately 8.5 miles east of the Project site. These faults could have the potential to generate strong seismic ground shaking at the Project site during an earthquake event.[47] The proposed facilities would be required to comply with the geotechnical and seismic design requirements of the most recent version of the California Building Code (CBC) (Title 24), which requires structural design that can accommodate ground accelerations expected from known active faults. In addition, implementation of the proposed Project would seismically retrofit the Home Economic Building, Administration Building (which includes the main classroom building) and Classroom Building 1. Seismic retrofitting would be in compliance with the seismic safety requirements of the LAUSD Supplemental Geohazard Assessment Scope of Work, CBC, Division of State Architect, and CDE, as required by SC-GEO-1. The retrofitting activities would include, but would not be limited to bracing and construction and reinforcing of walls. Therefore, implementation of the proposed Project would result in less than significant impacts associated with strong seismic ground shaking. No further analysis is required in the Draft EIR.

**iii) Seismic-related ground failure, including liquefaction?**

**No Impact.** Liquefaction is a seismic phenomenon where unconsolidated and/or near saturated soils lose cohesion and are converted to a fluid state as a result of severe vibratory motion. The geotechnical evaluation for the proposed Project determined that the site is not within an area zoned by the State as being susceptible to liquefaction.[48] In addition, groundwater was not encountered in borings drilled to a maximum depth of 36.5 feet on site; therefore, the potential for soil saturation to occur is low. Therefore, no impacts associated with liquefaction would occur. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**iv) Landslides?**

**Less than Significant Impact.** The site is not located within a California earthquake-induced landslide hazard zone.[49] Locally, the City of Los Angeles maps this area as potential for shallow surficial slope instability; however, the site is located outside the City's mapped landslide hazard areas.[50] Further, LAUSD policy dictates that schools will not be constructed in areas that are prone to landslides. LAUSD conducted a comprehensive site-specific geotechnical investigation, which also includes an assessment of existing landslide potential on and next to the Project site, as well as the potential for the Project to increase landslide hazards on or adjacent to the site. The surrounding topography of the site includes gentle slopes down to the east. The site is terraced down to the northeast with cut and fill pads. The engineered slopes are laid back or supported with retaining walls. The face of the slope was also protected with shotcrete and according to the findings of the geotechnical investigation the slope was evaluated and considered to be stable but recommended some of the areas of the shotcrete could benefit from maintenance.[51] Implementation of the Project would not expose people or

47 Ibid.
48 Ibid.
49 Ibid.
50 Ibid.
51 Ibid.

structures to substantial adverse hazards due to landslides, and there would be no impact in this regard. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**b) Result in substantial soil erosion or the loss of topsoil?**

**Less than Significant Impact** The proposed Project would include grading and earthmoving activities at the Project site that could expose soils to erosion from heavy winds, rainfall, or runoff. As Project construction would disturb more than one acre of soil, the Project operator would be required to comply with SC-GEO-1 Geohazard Assessment Scope of Work, including the National Pollutant Discharge Elimination System (NPDES) Construction General Permit. In compliance with this permit and SC-HWQ-1 and SC-HWQ-2, a Stormwater Pollution Prevention Program (SWPPP) would be prepared and implemented, which would require erosion control, sediment control, and BMPs to minimize loss of topsoil or substantial erosion. Construction contractors are responsible for implementation of the SWPPP, which includes maintenance, inspection, and repair of erosion and sediment control measures and water quality BMPs throughout the construction period. Once constructed, disturbed areas would be protected by coverings such as structures, pavement, concrete, or vegetation, and the potential for long-term erosion or loss of topsoil would be reduced to less than significant. Therefore, with implementation of these requirements and associated BMPs, erosion related to construction activities and operation of the proposed Project would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the Project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?**

**Less than Significant Impact.** The Project site is developed and terraced down to the northeast with cut and fill pads. Engineered slopes are laid back or retained with wall structures. The surrounding topographic relief is gently sloping down to the east. The City of Los Angeles has mapped the Project area to have a potential for shallow surficial slope instability; however, the site is located outside the City's mapped landslide hazard areas.[52] Records documenting the placement and compaction of the existing fill soils are not available; therefore, the existing fill soils are not considered suitable for support of new structures on conventional spread/continuous footings. Therefore, Project development may result in potentially significant impacts regarding unstable soils. However, the Comprehensive Geotechnical Report prepared for the Project identified recommendations that, when implemented would ensure soil stability. The recommendations include removal and re-compaction of any existing fill, or replacement with engineered fill. All recommendations from the Comprehensive Geotechnical Report would be consistent with the most recent version of the California Building Code including compaction specifications consistent with ASTM D1557. Final design level geotechnical recommendations would be incorporated into the project design including site preparation specifications; therefore, potential impacts associated with unstable soils would be less than significant. No further analysis is required in the Draft EIR.

[52] Ibid.

**d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?**

**Less than Significant Impact.** Expansive soils are predominantly comprised of clays, which expand in volume when water is absorbed and shrink when the soil dries. Expansion is measured by shrink-swell potential, which is the volume change in soil with a gain in moisture. Soils with a moderate to high shrink-swell potential can cause damage to buildings and infrastructure. The Project site's existing near surface soils in some areas were found to have medium to high expansion potential, and may shrink and swell with fluctuations in moisture content.[53] Future facilities within the Project area may be exposed to potential significant impacts regarding expansive soils. The Comprehensive Geotechnical Report provided recommendations that would avoid impacts related to expansive soils by removal of all soils found to have high expansion potential and replacement with engineered fill if re-use of onsite soils do not meet geotechnical minimum standards. The recommendations in the Comprehensive Geotechnical Report would be incorporated into Project design specifications. As noted above, design measures that could be used to address expansive soils may include replacement with engineered fill and apply to a minimum depth of 1 foot below grade as well as a minimum of 5 lateral feet outside building and pavement areas. Final limits of removals and fill placement would be determined by a state licensed geotechnical engineer during grading activities. Compliance with the CBC would be ensured through the implementation of the recommendations in the final design level Comprehensive Geotechnical Report. Therefore, the proposed Project would not expose people or structures to potential adverse effects involving expansive soils and impacts would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?**

**No Impact.** The proposed Project would not include the installation or use of septic tanks or alternative wastewater disposal systems. The proposed Project would connect to the existing sanitary sewer system for wastewater disposal. Thus, no impact associated related to alternative wastewater disposal systems would occur. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

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[53] Ibid.

# 4.7 GREENHOUSE GAS EMISSIONS

| | Potentially Significant Impact | Less Than Significant with Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| **VII. GREENHOUSE GAS EMISSIONS.** Would the Project: | | | | |
| a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment? | ☒ | ☐ | ☐ | ☐ |
| b. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases? | ☐ | ☐ | ☒ | ☐ |

## 4.7.1 Discussion

The SUP PEIR includes SCs for minimizing impacts related to greenhouse gas (GHG) emissions in areas where future Projects would be implemented under the SUP. Applicable SCs related to greenhouse gas emissions impacts associated with the proposed Project are provided in **Table 4.7-1**.

**TABLE 4.7-1**
**GREENHOUSE GAS EMISSIONS STANDARD CONDITIONS OF APPROVAL**

| Applicable SCs | Description |
|---|---|
| SC-GHG-1 | During school operation, LAUSD shall perform regular preventative maintenance on pumps, valves, piping and tanks to minimize water loss. |
| SC-GHG-2 | LAUSD shall utilize automatic sprinklers set to irrigate landscaping during the early morning hours to reduce water loss from evaporation. |
| SC-GHG-3 | LAUSD shall reset automatic sprinkler timers to water less during cooler months and rainy season. |
| SC-GHG-4 | LAUSD shall develop a water budget for landscape (both non-recreational and recreational) and ornamental water use to conform to the local water efficient landscape ordinance. If no local ordinance is applicable, then use the landscape and ornamental budget outlined by the California Department of Water Resources. |
| SC-GHG-5 | LAUSD shall ensure that the time dependent valued energy of the proposed Project design is at least 10 percent, with a goal of 20 percent less than a standard design that is in minimum compliance with the California Title 24, Part 6 energy efficiency standards that are in force at the time the Project is submitted to the Division of the State Architect.. |

## 4.7.2 Impact Analysis

Would the Project:

**a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?**

**Potentially Significant Impact.** GHG emissions from human activity are implicated in global climate change or global warming. The principal GHGs are carbon dioxide (CO2), methane (CH4), nitrogen oxides ($NO_x$), ozone, water vapor, and fluorinated gases (hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride). The Draft EIR will identify the GHG emissions associated with construction and operation of the proposed Project and the potential impact on the environment from GHG emissions.

**b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?**

**Less than Significant Impact.** As described in the Program EIR, implementation of the SUP would be consistent with plans adopted for the purpose of reducing GHG emissions, such as the SCAG Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), California Assembly Bill 32, California Air Resources Board Scoping Plan, and other statewide strategies to reduce GHG emissions.[54] Development of the proposed Project would replace and modernize facilities at San Pedro HS, but it would not increase the number of students or faculty at the school and therefore, would not increase GHG emissions. As such, the proposed Project would not conflict with the goals of the RTP/SCS.

Additionally, SUP-related Projects, including the proposed Project, would comply with the District's GHG emission reduction measures. LAUSD's School Design Guide requires construction contractors to reuse, recycle, and salvage non-hazardous materials generated during demolition and/or new construction, as materials recovery would minimize the need to produce and transport new materials, thereby reducing emissions from mobile sources and energy use.[55] With respect to all SUP Projects, implementation of SCs GHG-1 through GHG-5 would ensure that the proposed Project would not conflict with any plans, policies or regulations adopted for the purpose of reducing GHG emissions. Therefore, with Project implementation and adherence to SCs GHG-1 through GHG-5 and compliance with Title 24, the proposed Project would not conflict with plans, policies, or regulations adopted for the purpose of reducing GHG emissions. Therefore, impacts would be less than significant and this issue will not be further analyzed in the Draft EIR.

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[54] LAUSD. 2015. SUP Final Environmental Impact Report, http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015. Pg. 5.7-18 to 5.7-19.

[55] Ibid.

# 4.8 HAZARDS AND HAZARDOUS MATERIALS

| | Potentially Significant Impact | Less Than Significant with Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| **VIII. HAZARDS AND HAZARDOUS MATERIALS.** Would the Project: | | | | |
| a. Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials? | ☐ | ☐ | ☒ | ☐ |
| b. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment? | ☐ | ☐ | ☒ | ☐ |
| c. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school? | ☐ | ☐ | ☒ | ☐ |
| d. Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment? | ☐ | ☐ | ☐ | ☒ |
| e. For a Project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Project result in a safety hazard for people residing or working in the Project area? | ☐ | ☐ | ☐ | ☒ |
| f. For a Project within the vicinity of a private airstrip, would the Project result in a safety hazard for the people residing or working in the area? | ☐ | ☐ | ☐ | ☒ |
| g. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? | ☐ | ☐ | ☒ | ☐ |
| h. Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands? | ☐ | ☐ | ☐ | ☒ |

| | Potentially Significant Impact | Less Than Significant with Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| i. Be located on a site that is (a) a current or former hazardous waste disposal site or solid waste disposal site and, if so, has the waste been removed; (b) a hazardous substance release site identified by the State Department of Health Services in a current list adopted pursuant to Section 25356 for removal or remedial action pursuant to Chapter 6.8 of Division 20 of the Health and Safety Code; or a site that contains one or more pipelines, situated underground or above ground, which carries hazardous substances, acutely hazardous materials or hazardous wastes, unless the pipeline is a natural gas line which is used only to supply natural gas to that school or neighborhood? | ☐ | ☐ | ☐ | ☒ |
| j. Be located within one-fourth of a mile of any facilities which might be reasonably anticipated to emit hazardous or acutely hazardous substances or waste? | ☐ | ☐ | ☐ | ☒ |
| k. Be located on a site where the property line is less than the following distance from the edge of respective power line easements?<br>100 feet of a 50-133 kV line,<br>150 feet of a 220-230 kV line, or<br>350 feet of a 500-550 kV line. | ☐ | ☐ | ☐ | ☒ |
| l. Be located on a site that is within 1,500 feet of a railroad track easement? | ☐ | ☐ | ☐ | ☒ |
| m. Be located on a site that is adjacent to or near a major arterial roadway or freeway that may pose a safety hazard? | ☐ | ☐ | ☒ | ☐ |
| n. Be located on a site that is near a reservoir, water storage tanks, or high-pressure water pipelines? | ☐ | ☐ | ☒ | ☐ |
| o. Be located within 1,500 feet of a pipeline that may pose a safety hazard? | ☐ | ☐ | ☒ | ☐ |
| p. Be located on a site that contains, or is near, propane tanks that can pose a safety hazard? | ☐ | ☐ | ☒ | ☐ |
| q. Be located on a site that does not have a proportionate length to width ratio to accommodate the building layout, parking and playfields that cannot be safely supervised? | ☐ | ☐ | ☐ | ☒ |
| r. Be located on a site where the existing or proposed zoning of the surrounding properties is incompatible with schools and may pose a health or safety risk to students? | ☐ | ☐ | ☐ | ☒ |
| s. Be located on a site with a traffic pattern for school buses that can pose a safety hazard? | ☐ | ☐ | ☒ | ☐ |

| | Potentially Significant Impact | Less Than Significant with Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| t. Be located on a site that is within 2,000 feet of a significant disposal of hazardous waste? | ☐ | ☐ | ☐ | ☒ |

## 4.8.1 Discussion

The following evaluation of hazards and hazardous materials is based, in part, on the Phase I Environmental Site Assessment (Phase I ESA) prepared for the Project site in June 2016 and the Draft PEA-E prepared for the Project site in June 2017. The PEA (Appendix E) and Phase I ESA (Appendix F) of this IS provide an assessment concerning environmental conditions as they exist on the San Pedro HS property.

## 4.8.2 Impact Analysis

Would the Project:

**a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?**

**Less than Significant Impact.** Proposed Project construction activities would involve transport, use, and disposal of hazardous materials such as solvents, oils, grease, and cleaning fluids. In addition, hazardous materials may be needed for fueling and servicing construction equipment on the Project site. The use of these materials during Project construction would be short-term in nature, and would occur in accordance with standard construction practices. All transport, handling, use, and disposal of substances such as petroleum products related to construction would comply with all federal, State, and local laws regulating the management and use of hazardous materials. These laws include but are not limited to: the Resource Conservation and Recovery Act (RCRA), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), federal Clean Air Act that regulates asbestos as a hazardous air pollutant and the Occupational Safety and Health Administration (OSHA) that regulates asbestos as a potential worker safety hazard. Construction activities that involve hazardous materials would be governed by several agencies, including the California Environmental Protection Agency (CalEPA), Caltrans, California Division of Occupational Safety and Health (Cal/OSHA), Department of Toxic Substances Control (DTSC), and the Los Angeles Fire Department. BMPs would be in place to ensure the lawful and proper storage and use of these materials and as such, potential impact would be would be less than significant. As discussed in the PEIR, the types and amounts of hazardous materials that are now handled by LAUSD are not expected to substantially change upon construction of individual Projects or upon completion of the SUP in its entirety. The amounts of hazardous materials handled at a given campus would remain relatively small and would be subject to federal, state, and local health and safety requirements. LAUSD would continue to implement its existing programs, practices, and procedures for handling hazardous materials, which would be extended to all new facilities.

An important component of the SUP is to eliminate hazards associated with asbestos and lead-based paint in existing buildings to be demolished, as would be the case with the proposed Project. With respect to asbestos containing materials (ACM), the Program EIR provides a complete protocol for the handing of ACM, including required procedures whenever ACM would be disturbed, in compliance with federal and state regulations.[56]

The federal Clean Air Act regulates asbestos as a hazardous air pollutant, which subjects it to regulation by the SCAQMD under its Rule 1403. OSHA also regulates asbestos as a potential worker safety hazard. The Asbestos-Containing Materials in Schools rule (Code of Federal Regulations [CFR] Title 40, Part 763) requires local education agencies to inspect their school buildings for asbestos-containing building materials, prepare asbestos management plans, and perform asbestos response actions to prevent or reduce asbestos hazards. Compliance with asbestos regulations and requirements is the responsibility of the District's Facilities Environmental Technical Unit.

The Phase I Environmental Site Assessment Report (Phase I ESA) for the proposed Project indicates that based on the age of the existing site buildings it is possible that ACM is present in building materials.[57] All ACM must be removed by licensed asbestos abatement contractors or by trained and certified FETU personnel using specific handling procedures. In addition, construction contractors are required to comply with the requirements of the District's Standard Specification Section 13280, "Asbestos Abatement and Asbestos Related Disturbance" during any Project where ACM may be disturbed. Compliance with federal and state regulations and the District guidelines and procedures would ensure the reduced risk of release of hazardous building materials into the environment. Therefore, impacts associated with the handling and disposal of ACM would be less than significant.

The Phase I ESA for the proposed Project indicates that based on the age of the existing site buildings, it is possible that LBP has been applied to the exterior finishes of the buildings. As such, it is possible that LBP residue is present in soils around the perimeters of the existing and former buildings.[58] Specific procedures for handling building materials that may contain lead include, but are not limited to, lead abatement performed by contractors certified by the California Department of Public Health, review of assessment reports addressing the impact to lead-based materials, written approval by the District's environmental representative of the abatement work plan, and transportation of lead-related waste under a Uniform Hazardous Waste Manifest. In addition, construction contractors are required to comply with the requirements of the District's Standard Specification Section 13282, "Lead Abatement and Lead Related Construction Work" during any Project where lead-containing materials may be disturbed. Compliance with federal and State regulations and the District guidelines and procedures would ensure that impacts associated with the handling and disposal of LBP would be less than significant.

Long-term operation of the proposed Project would involve very little transport, storage, use, or disposal of hazardous materials and substances. LAUSD's OEHS developed and implemented a Chemical Hygiene Plan

[56] LAUSD OEHS. "SUP Final Environmental Impact Report," http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.
[57] Clark Seif Clark, Inc., 2016. *Phase I Environmental Site Assessment, San Pedro High School, 1001 W. 15th Street, San Pedro, CA.* June 7, 2016.
[58] Ibid.

to minimize employee and student exposure to hazardous chemicals in schools with laboratories. Site Administrators are required to appoint a Chemical Safety Coordinator to implement the Chemical Hygiene Plan and to assist the Site Administrator in complying with hazardous material management, conducting employee trainings, and established laboratory safety protocols. The types of hazardous materials associated with operation of a school would generally be limited to those associated with janitorial, maintenance, and repair activities, such as commercial cleansers, paints, aerosol cans, lubricants, and automotive supplies (by-products), etc. The amounts and use of these materials would be limited, and the transport, storage, use, and disposal of these materials would be subject to federal, state, and local health and safety requirements. Such requirements would be incorporated into the design and operation of the Project, such as providing for and maintaining safety data sheets, appropriate storage areas for hazardous materials and installing or affixing appropriate warning signs and labels. Therefore, the proposed Project would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials and impacts would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?**

**Less Than Significant Impact.** A significant impact would occur if the proposed Project created a significant hazard to the public or environment due to a reasonably foreseeable release of hazardous materials.

San Pedro HS campus is located within a moderate potential radon zone.[59] Radon gas sampling was conducted for the Project site. These hazard categories correspond to the percentage of homes that are likely to be equal to or greater than the U.S. Environmental Protection Agency (EPA) Radon Action Level of 4.0 picocuries per liter (pCi/L). Radon samples were collected from four locations including the Administration Building, Classroom Building 1, PE Building, and Home Economics Building. The radon testing locations and evaluation are independent of the soil testing activities. Radon testing results reported concentrations ranging from below the reporting limit of 0.2 pCi/L up to 3.9 pCi/L in the subject building. The highest radon concentration of 3.9 pCi/L was found in Room 231 of Classroom Building 1.

Results of radon analysis of samples collected from the subject buildings were below the EPA action level of 4.0 pCi/L.[60] Therefore, the impact is less than significant and no mitigation is required. However, a passive radon reduction system would be installed in the new buildings to ensure that radon levels in the new buildings would be below 4.0 pCi/L.

According to the Phase I ESA, there is a clarifier associated with the operation of the auto shop scheduled for demolition. Investigation of the soil in the location of the clarifier was conducted in August 2016. The clarifier was identified as having the potential to impact soil with petroleum hydrocarbons, volatile organic compounds

[59] Ensafe Inc., June 30, 2017, *The Draft Preliminary Environmental Assessment Equivalent for the San Pedro High School Comprehensive Modernization Project at 1001 W. 15th Street, Los Angeles, California 920731.*

[60] Ibid.

(VOCs), and polychlorinated biphenyls (PCBs). Total petroleum hydrocarbons (TPH)-gasoline and TPH-diesel were not detected in any of the samples analyzed from the clarifier area. TPH-motor oil was detected in three of the seven samples at concentration below the RWQCB Maximum Soil Screening Level of 1,000 mg/kg for TPH-motor oil. Therefore, TPH is eliminated as a contaminant of potential concern (COPCs) and no further action is warranted at the clarifier area.[61]

Surficial soils were tested for termiticides, herbicides including arsenic, pesticides, PCBs in caulking and LBPs. Use organochlorine pesticides (OCPs) as a termiticide has been known to result in significant concentrations around structures with wood components built prior to January 1, 1989. Arsenic may also be associated with direct application of pesticides. Weathering, scraping, chipping, and abrasion of potential PCB caulking or lead-based paint surfaces may cause these contaminants to be released and accumulate in soil around Project area structures. Leaking dielectric fluid from pad-mounted electrical transformers is a potential source of PCBs in soil near the girls' gymnasium. Arsenic was detected in each of the 48 primary surficial samples. Lead was detected in each of the 48 primary surficial. Thirty-five of the 48 primary soil surficial samples contained detectable concentrations of OCPs that included one or more of the following: dichlorodiphenyldichloroethane (4-4'-DDD), dichlorodiphenyldichloroethylene (4-4'-DDE), dichlorodiphenyltrichloroethane (4-4'-DDT), alpha-hexachlorocyclohexane (alpha-BHC), chlordane, and dieldrin. None of the other OCP concentrations exceeded their respective regional screening levels (RLSs).[62]

PCBs were not detected in the 12 primary samples analyzed. VOCs were not detected in the seven samples analyzed from the clarifier area.[63]

Implementation of the proposed RAW would mitigate the potential threat to human health and the environment posed by affected soils at the Project site. The PEA-E estimates that the proposed Project would include removal and off-site disposal of an estimated 225.6 cubic yards of contaminated soil. For the purposes of this IS, a conservative estimate of removal of up to 500 cubic yards of contaminated soil is being used.

Due to the historic use of hazardous materials onsite, there is the potential for the release of hazardous material or exposure of the public to hazardous materials. However, because the affected soils onsite would be removed, implementation of the RAW would ensure the safety of construction workers, employees, students, and staff during construction and operation of the proposed Project. The proposed Project would result in excavation and removal of up to 500 cubic yards of impacted soils and replacement with clean, engineered fill. The soil would be removed using backhoes and/or excavators equipped with bladed buckets and would be either directly loaded to open end dump trucks for immediate offsite transport or staged in temporary stockpiles on plastic liners next to the excavation. All RAW contractors and subcontractors would be responsible for operating in accordance with the most current requirements of Title 8, CCR (i.e., General Industry and Construction Safety Orders) ([Section 5129]), Title 29 of the Code of Federal Regulations (i.e., Standards for Hazardous Waste Operations and Emergency Response [Section 1910.120] and Construction Industry

61 Ibid.
62 Ibid.
63 Ibid.

Standards [Section 1926]), and other applicable Federal, state and local laws and regulations. All personnel shall operate in compliance with all California OSHA requirements.

A site-specific Health and Safety Plan (HASP) shall be prepared for this Project in accordance with current health and safety standards. The Remediation Contractor, Environmental Consultant, and any subcontractors doing field work in association with this RAW would either abide by the HASP or would develop their own safety plan that, at a minimum, would meet the requirements of this HASP. The designated Project Health and Safety Officer (HSO) would be responsible for maintaining compliance with the HASP. Daily tailgate health and safety meetings would be held and meeting participation would be documented in field forms that would be maintained with Project records.

Compliance with regulatory requirements would ensure that the proposed Project would result in less than significant impacts. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?**

**Less Than Significant Impact.** The proposed Project would be implemented on a school site surrounded by residential uses. Further, the Dana Middle School is located adjacent to the Project site to the east. The proposed Project would involve the excavation and removal of impacted soil. Dust control measures would be implemented during remedial activities to reduce the potential for fugitive dust and migration of contaminants in compliance with requirements contained in SCAQMD Rule 402. As discussed in Item (b) above, a site-specific HASP shall be prepared for the proposed Project in accordance with current health and safety standards to reduce the potential for accident conditions involving the release of hazardous materials into the environment. The onsite HSO would ensure compliance with the dust control measures and HASP. Removal of impacted soil would be completed in conformance with federal, state, and local hazardous waste/materials regulations. Compliance with regulatory requirements and with the HASP would ensure that the proposed Project would not result in hazardous emissions, materials or substances within 0.25 miles of an existing school and impacts would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?**

**No Impact.** Government Code Section 65962.5, amended in 1992, requires CalEPA to develop and update annually the Cortese List, which is a list of hazardous waste sites and other contaminated sites. While Government Code Section 65962.5 makes reference to the preparation of a list, many changes have occurred related to web-based information access since 1992, and information regarding the Cortese List is now compiled on the websites of DTSC, the State Water Board, and CalEPA. DTSC maintains the EnviroStor database, which includes sites on the Cortese List and also identifies potentially hazardous sites where cleanup actions (such as removal action) or extensive investigations are planned or have occurred. Review of the EnviroStor

database showed that the Project site is not identified on any of the above database lists. According to both the EnviroStor and GeoTracker databases, there are no documented hazardous materials at the Project site.[64][65] The proposed Project would not be located on a site that is included on a list of hazardous materials sites pursuant to Government Code Section 65962.5, and therefore no impact would occur. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**e) For a Project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Project result in a safety hazard for people residing or working in the Project area?**

**No Impact.** The nearest airport to the Project site is the Torrance Municipal Airport, located approximately 7 miles northwest of the Project site. The proposed Project is not located within the Los Angeles International Airport Influence Area.[66] Therefore, the proposed Project would not create a safety hazard from proximity to a public airport and no impact would occur. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**f) For a Project within the vicinity of a private airstrip, would the Project result in a safety hazard for people residing or working in the Project area?**

**No Impact.** The Project site is not located within two miles of an operating airport.[67] There are 54 private-use heliports within the City of Los Angeles.[68] The Project site does not include a private-use heliport. The nearest private helipad, the Ports O'Call Heliport is located approximately 1.4 miles east of the Project site.[69] Demolition and new construction on the existing school site would not create any new safety hazards associated with a private airstrip or heliport operations. Therefore, the proposed Project would not create a safety hazard from proximity to a private airstrip and no impact would occur. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?**

**Less than Significant Impact.** The Project site is an existing school campus that would adhere to LAUSD's emergency response plans. During construction, emergency response procedures would be governed by the District's emergency response protocol and the contractor's emergency response plan. Construction of the proposed Project would involve the transport of equipment and materials on public roadways. Other than delivery of materials and supplies to the Project site and the hauling of debris and soil from the Project site, construction of the proposed Project would be confined within the campus boundaries.

64 DTSC, 2017. EnviroStor Database. Available at: https://www.envirostor.dtsc.ca.gov/public/, accessed August 16, 2017.
65 SWRCB, 2017. GeoTracker Map. Available at: https://geotracker.waterboards.ca.gov/, accessed August 28, 2017.
66 Los Angeles County Airport Land Use Commission. *2003. Torrance Municipal Airport: Airport Influence Area Map.*
67 ZIMAS. 2017. http://zimas.lacity.org
68 Airnav.com. 2017. Airports in Los Angeles. Available at: http://www.airnav.com/airports/get, accessed August 16, 2017.
69 Available at: http://www.airnav.com/cgi-bin/airport-search, accessed August 16, 2017.

Upon completion of the proposed Project, District-wide emergency response plans, policies, and guidance developed by LAUSD would be extended to the new facilities. In addition, LAUSD developed a district-wide Emergency Operations Plan (EOP) that assigns responsibilities and provides a framework for coordination of response and recovery efforts in the event of an emergency. District schools are also required to comply with California Code Sections 32281-32289, dealing with the preparation of Safe School Plans (SSPs), which must be reviewed and updated every year. As noted in the PEIR, the proposed Project would conform to local ordinances and would not interfere with an existing emergency response or evacuation plan(s); for the City of Los Angeles, these plans include but are not limited to: City's Emergency Operations Master Plan, Local Hazard Mitigation Plan, the Los Angeles County Operational Area Emergency Response Plan, and the County All-Hazards Mitigation Plan. Construction work would not impede emergency access in the surrounding community.

Public schools are considered critical community facilities and are often used as evacuation centers during disasters. Project construction would be completed in phases which would allow partial use of the campus in the event of an emergency. Implementation of the proposed Project includes seismic retrofits to the Home Economics Building, Administration Building and Auditorium Building, PE Building, and Classroom Building I resulting favorably on emergency response by making improvements that would comply with current seismic standards and making buildings that could be used as evacuation points in the event of a disaster. Therefore, impacts associated with implementation of or interference with adopted emergency evacuation and response plans would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**h) Expose people or structures to a significant risk of loss, injury or death involving wild land fires, including where wild lands are adjacent to urbanized areas or where residences are intermixed with wild lands?**

**No Impact.** The Project site is located within a highly urbanized area of the City and does not contain dense vegetation (flammable brush) considered to be wildlands. In addition, the Project site is not located within or adjacent to a California Department of Forestry and Fire (CalFire) Fire Hazard Severity Zone.[70,71] Therefore, the risk for wildland fire is low and implementation of the proposed Project would not expose people of structures to a significant risk involving wildland fires and no impact would occur. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

[70] CalFire, Very High Fire Hazard Severity Zones in LRA: Los Angeles, http://frap.fire.ca.gov/webdata/maps/los_angeles/LosAngelesCounty.pdf, 2011.

[71] California Department of Forestry and Fire (CalFire), Fire Hazard Severity Zones in SRA: Los Angeles, http://frap.fire.ca.gov/webdata/maps/los_angeles/fhszs_map.19.pdf, 2007.

**i) Be located on a site that is (a) a current or former hazardous waste disposal site or solid waste disposal site and, if so, has the waste been removed; (b) a hazardous substance release site identified by the State Department of Health Services in a current list adopted pursuant to Section 25356 for removal or remedial action pursuant to Chapter 6.8 of Division 20 of the Health and Safety Code; or a site that contains one or more pipelines, situated underground or above ground, which carries hazardous substances, acutely hazardous materials or hazardous wastes, unless the pipeline is a natural gas line which is used only to supply natural gas to that school or neighborhood?**

**No Impact.** The Project site has operated as a high school campus since the 1920s. According to both EnviroStor and GeoTracker databases, the Project site is not located on any documented current or former hazardous waste disposal site or solid waste disposal site. The proposed Project location is also not listed as a hazardous substance release site as identified by the State Department of Health Services in a current list adopted pursuant to Section 25356 for removal or remedial action pursuant to Chapter 6.8 of Division 20 of the Health and Safety Code. Based on the National Pipeline Mapping System data, there are not pipelines near the Project site.[72] No impact is anticipated to occur as a result of the proposed Project. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**j) Be located within one-fourth of a mile of any facilities which might be reasonably anticipated to emit hazardous or acutely hazardous substances or waste?**

**No Impact.** According to the EnviroStor and GeoTracker databases, the Project site is not located within one-quarter mile of a facility that might emit hazardous or acutely hazardous substances or waste. Therefore, no impact would occur. No mitigation is required and this issue will not be further analyzed in the EIR.

**k) Be located on a site where the property line is less than the following distance from the edge of respective power line easements? 100 feet of a 50-133 kV line, 150 feet of a 220-230 kV line, or 350 feet of a 500-550 kV line.**

**No Impact.** Pursuant to CCR, Title 5, Section 14010(c), the property line for a new school site shall not be the following minimum distances from the edge of a high-voltage power line easement: 100 feet for 50-133 kV lines; 150 feet for 220-230 kV lines; and 350 feet for 500-550 kV lines. Local utility lines are located along the streets surrounding the Project site, including West 17th Street, South Leland Street, and West 14th Street. The proposed Project is located on an existing school site. Further, the new facilities would be constructed within the existing campus and would not place any new buildings or structures closer to existing utility lines. No impact would occur. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

[72] National Pipeline Mapping System (NPMS). NPMS Public Map Viewer. Available at https://www.npms.phmsa.dot.gov/default.aspx. Accessed August 17, 2017.

**l) Be located on a site that is within 1,500 feet of a railroad track easement?**

**No Impact.** The Project site is not located within 1,500 feet of a railroad track[73] and no impact would occur. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**m) Be located on a site that is adjacent to or near a major arterial roadway or freeway that may pose a safety hazard?**

**Less than Significant Impact.** The closest major roadway is I-110, located approximately 1.5-miles northeast of the Project site. The Project site is located south of West 14th Street, north of West 17th Street, east of South Leland Street, and west of South Cabrillo Street. All four streets are two-lane, two-way roads. The intersections on South Leland Street along the campus frontage (West 15th, West 16th, and West 17th streets) are all-way stop-controlled intersections, with school crosswalk pavement markings across South Leland Street at West 15th and West 16th streets. In addition, the intersection of West 17th Street / South Alma Street is an all-way stop-controlled intersection with school crosswalk pavement markings across West 17th Street. The Project site is located in a low to medium density residential area, and the surrounding streets and roadways are not considered major arterial roadways or freeways.[74] Therefore, the proposed Project would not place facilities on a site near a roadway or freeway that may pose a safety hazard and impacts would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**n, o) Be located on a site that is near a reservoir, water storage tanks, or high-pressure water pipelines? Be located within 1,500 feet of a pipeline that may pose a safety hazard.**

**Less than Significant Impact.** According to the Phase I Environmental Site Assessment conducted for the proposed Project, LADWP was contacted to obtain information regarding the presence of high pressure water pipelines and utilities within 1,500 feet of the Project site.[75] No infrastructure, including water storage tanks, high-pressure water lines, and/or hazardous pipelines are located on the Project site. Further, the nearest reservoir to the Project site is the Palos Verdes Reservoir, located approximately 4.0 miles northwest of the Project site. Therefore, impacts related to water storage and hazardous pipelines would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**p) Be located on a site that contains, or is near, propane tanks that can pose a safety hazard?**

**Less than Significant Impact.** No propane tanks are known to be present within the Project site. However, propane tanks could be located at residential properties to the north, west, and south of the Project site, across West 15th Street, South Leland Street, and West 17th Street, respectively. Local regulations pertaining to the storage, transportation, and use of propane would require proper storage, transportation, and use of propane

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73 Clark Seif Clark, Inc., 2016. *Phase I Environmental Site Assessment, San Pedro High School, 1001 W. 15th Street, San Pedro, CA.* June 7, 2016.

74 City of Los Angeles, Mobility Plan 2035, An Element of the General Plan, http://planning.lacity.org/documents/policy/mobilityplnmemo.pdf, 2016, accessed August 17, 2017.

75 Clark Seif Clark, Inc., 2016. *Phase I Environmental Site Assessment, San Pedro High School, 1001 W. 15th Street, San Pedro, CA.* June 7, 2016.

tanks. Compliance with existing regulations would reduce the potential safety hazards to individuals on the Project site and impacts would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**q) Be located on a site that does not have a proportionate length to width ratio to accommodate the building layout, parking and playfields that cannot be safely supervised?**

**No Impact.** The Project site is an existing school campus with adequate length to width ratio to accommodate the building layout, parking and playfields that can be safely supervised. No impacts would occur from the Project. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**r) Be located on a site where the existing or proposed zoning of the surrounding properties is incompatible with schools and may pose a health or safety risk to students?**

**No Impact.** The Project site is located within an existing school campus. The Project site is surrounded primarily by residential designations and Dana Middle School. Because the campus is currently in operation and the proposed Project would not include any offsite modifications, the surrounding land uses would not generate or create any additional health or safety risks to students. No impacts would occur from the proposed Project. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**s) Be located on a site with a traffic pattern for school buses that can pose a safety hazard?**

**Less Than Significant Impact.** The proposed Project would be implemented at an existing school site. Vehicular/bus drop-off and pickup zones would be located in the curb lane adjacent to the campus on Leland Street and 17th Street. The student drop-off and pickup operations would minimize vehicular queuing in traffic lanes on the local street system (and to reduce queuing that currently occurs on Alma Street and 15th Street). Changes to existing roadways are not part of the proposed Project. In addition, traffic generated during Project construction would be generally compatible with the mix of vehicle types (autos and trucks) currently using the regional and local roadways surrounding the campus. As such, impacts from the Project would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**t) Be located on a site that is within 2,000 feet of a significant disposal of hazardous waste?**

**No Impact.** The Project site is located within an existing operating school campus. Surrounding land uses include residential land uses and Dana Middle School. According to a search of DTSC Hazardous Waste and Substances Site (Cortese List), the Project site is not within 2,000 feet of a significant disposal of hazardous waste.[76] Therefore, no impact would occur from the Project. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

[76] DTSC, Hazardous Waste and Substances Site List (Cortese List), https://www.envirostor.dtsc.ca.gov/public/, accessed August 17, 2017.

# 4.9 HYDROLOGY AND WATER QUALITY

| | Potentially Significant Impact | Less Than Significant with Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| **IX. HYDROLOGY AND WATER QUALITY.** Would the Project result in: | | | | |
| a. Violate any water quality standards or waste discharge requirements? | ☐ | ☐ | ☒ | ☐ |
| b. Substantially deplete groundwater supplies or interfere with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned land uses for which permits have been granted)? | ☐ | ☐ | ☒ | ☐ |
| c. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site? | ☐ | ☐ | ☒ | ☐ |
| d. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in an manner which would result in flooding on- or off site? | ☐ | ☐ | ☒ | ☐ |
| e. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff? | ☐ | ☐ | ☒ | ☐ |
| f. Otherwise substantially degrade water quality? | ☐ | ☐ | ☒ | ☐ |
| g. Place housing within a 100-year flood plain as mapped on federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map? | ☐ | ☐ | ☐ | ☒ |
| h. Place within a 100-year flood plain structures which would impede or redirect flood flows? | ☐ | ☐ | ☐ | ☒ |
| i. Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam? | ☐ | ☐ | ☐ | ☒ |
| j. Inundation by seiche, tsunami, or mudflow? | ☐ | ☐ | ☒ | ☐ |

## 4.9.1 Discussion

The Program EIR includes SCs for minimizing impacts related to hydrology and water quality of the existing environment in areas where future Projects would be implemented under the SUP. Applicable SCs related to hydrology and water quality impacts associated with the proposed Project are provided in **Table 4.9-1**.

**TABLE 4.9-1**
**HYDROLOGY AND WATER QUALITY STANDARD CONDITIONS OF APPROVAL**

| Applicable SCs | Description |
|---|---|
| SC-HWQ-1 | **Stormwater Technical Manual**<br>This manual establishes design requirements and provides guidance for the cost-effective improvement of water quality in new and significantly redeveloped LAUSD school sites. These guidelines are intended to improve water quality and mitigate potential impacts to the Maximum Extent Practicable (MEP). While these guidelines meet current post-construction Standard Urban Stormwater Mitigation Plan (SUSMP) requirements. The guidelines address the mandated post-construction element of the NPDES program requirements. |
| SC-HWQ-2 | **Compliance Checklist for Storm Water Requirements at Construction Sites.**<br>This checklist has requirements for compliance with the General Construction Activity Permit and is used by OEHS to evaluate permit compliance. Requirements listed include a SWPPP; BMPs for minimizing storm water pollution to be specified in a SWPPP; and monitoring storm water discharges to ensure that sedimentation of downstream waters remains within regulatory limits. |

## 4.9.2 Impact Analysis

Would the Project:

**a) Violate any water quality standards or waste discharge requirements?**

**Less than Significant Impact.** The Project site is located within a dense urban area of the City of Los Angeles, and is currently connected to the City's network of stormwater drainage facilities which ultimately convey surface water runoff to the Pacific Ocean. Construction of the proposed Project would include site grading. Sediment associated with earthmoving activities and exposed soil is the most common pollutant associated with construction sites. Other pollutants associated with construction include debris/trash and other materials generated during construction activities; hydrocarbons from leaks or spills of fuels, oils, and other fluids associated with construction equipment; and paints, concrete slurries, asphalt materials, and other hazardous materials. Storm water and non-storm water runoff could potentially carry these pollutants offsite and into the City's drainage system. However, all earthwork activities would be completed in accordance with LAUSD Standards and applicable regulations pertaining to stormwater runoff. The Program EIR requires all new SUP construction projects to comply with regulatory requirements if they would disturb greater than 1 acre, as would occur for the proposed Project.

LAUSD would implement SC-HWQ-1 and SC-HWQ-2, which requires compliance with LAUSD's Stormwater Technical Manual and the District's General Construction Activity Permit. All new construction Projects would be required to prepare and implement a sediment and erosion control plan that follow the BMPs outlined by

the SWRCB to comply with a Construction General Permit, including development of a SWPPP, as a required by the (RWQCBNPDES . The SWPPP would identify site-specific BMPs to control erosion, sediment, and other potential construction-related pollutants, including, but not limited to, the following:

- Proper storage, use, and disposal of construction materials;
- Removal of sediment from surface runoff before it leaves the Project site by silt fences or other similar devices around the site perimeter;
- Protection of all storm drain inlets on site or downstream of the Project site to eliminate entry of sediment;
- Prevention of tracking soil offsite through use of a gravel strip or wash facilities at exits from the Project site;
- Protection or stabilization of stockpiled soils.

LAUSD developed a program-wide SWPPP in 2005, with updates completed in 2007 and 2009. LAUSD's construction contracting protocol for new and existing sites that would undergo land disturbance provides BMPs designed to prevent or minimize stormwater pollution, including submission of a SWPPP.

Adherence to LAUSD standards and applicable regulations, compliance with the NPDES Construction General Permit, and preparation and implementation of a SWPPP prior to construction, would identify site-specific BMPs for erosion control, sediment, and other potential construction-related pollutants. The NPDES Construction General Permit and SWPPP would maintain water quality in accordance with the RWQCB standards, such that construction of the proposed Project would not violate any water quality standards or waste discharge requirements. Therefore, construction-related impacts to water quality would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**b) Substantially deplete groundwater supplies or interfere with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned land uses for which permits have been granted)?**

**Less than Significant Impact.** LADWP supplies water to the Project site. According to its Urban Water Management Plan (UWMP), LADWP's three main sources of water are the Los Angeles Aqueducts, local groundwater, and imported supplemental water purchased from the Metropolitan Water District of Southern California. In 2009/2010, the City relied on approximately 75,000 acre-feet of groundwater, meeting approximately 14 percent of the City's total annual demand.[77]

Although overall square footage of buildings would increase, it is assumed that water demand would remain the same as the existing conditions due to no increase in capacity, landscaping and associated irrigation systems. Therefore, there would be no net deficit in aquifer volume or lowering of the groundwater table near the Project site as the proposed Project would result in water demands that are similar to existing conditions. SUP-related

[77] LADWP. 2015. *Urban Water Management Plan.* April, 27, 2016.

Projects would not result any substantial changes in the quantity of groundwater supplies. Furthermore, no groundwater extraction activities would occur under the proposed Project, nor would any wells be constructed. The proposed Project would replace the existing impervious surfaces with other impervious surfaces. As such, compliance with applicable laws, regulations, and LAUSD standards during Project construction and operation would ensure impacts associated with groundwater supply and groundwater recharge would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**c) Substantially alter the existing drainage pattern of area, including through the alteration of the course of a stream or river, in a manner, which would result in substantial erosion or siltation on or off-site?**

**Less than Significant Impact.** Construction of the proposed Project would temporarily alter the localized drainage pattern at the Project site due to ground-disturbing activities, such as grading and excavation, construction of new building foundations, and trenching for utility improvements. Such alterations in the drainage pattern may temporarily result in erosion or siltation and/or increase the rate or amount of surface runoff if substantial drainage is rerouted. However, compliance with the NPDES Construction General Permit, which requires the development of a SWPPP, would minimize the potential for erosion or siltation and flooding through the implementation of BMPs. Therefore, impacts associated with substantial erosion or siltation and temporary drainage alterations during construction would be less than significant.

The Project site is located within a dense urban area within the City of Los Angeles with an existing network of stormwater drainage facilities, which ultimately convey surface water to the Pacific Ocean. Currently, the Project site is developed with buildings, landscaping, and paved parking areas. Implementation of the proposed Project would not significantly change surface drainage at the Project site, as similar uses would be constructed compared to existing uses.

The proposed Project would employ CHPS criteria which are intended to avoid water quality impacts and velocity increases where possible. Implementation of the CHPS criteria and LAUSD standard BMPs, requiring the collection of surface runoff in stormwater collection system designed for 25-year peak runoff rates, would reduce siltation or erosion impacts to a less-than-significant level. SUP Projects, including the proposed Project, would employ features outlined in the LAUSD Technical Manual to reduce the impacts of erosion and siltation, including incorporation of CHPS standards and BMPs relating to the use of native and drought-tolerant landscaping.

Compliance with applicable laws, regulations, and SC-HWQ-2 during Project construction and operation would ensure that impacts associated with drainage and erosion are less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner, which would result in flooding on- or off-site?**

**Less than Significant Impact.** As stated previously in Response 4.9 (c), the proposed Project would not substantially alter the local drainage pattern. The proposed Project would use minimal water during construction and operation and would thereby not generate a large amount of runoff as a result of site activities. No stream or river traverses the Project site. BMPs discussed above would control drainage onsite, thereby reducing its potential to cause flooding from occurring on or offsite. Therefore, flooding impacts resulting from drainage pattern alteration would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**e) Create or contribute runoff water, which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?**

**Less than Significant Impact.** Construction of the proposed Project would temporarily alter flow at the Project site due to ground-disturbing activities, such as grading and excavation, construction of new building foundations, and trenching for new utilities. However, compliance with the NPDES Construction General Permit, which requires development of a SWPPP, would minimize the potential for onsite and offsite flooding as the result of changes to the existing drainage patterns through implementation of BMPs. Therefore, impacts associated with onsite and offsite flooding due to temporary drainage alterations during construction would be less than significant.

Implementation of the proposed Project would not substantially change pervious and impervious surface area ratios, as similar uses would be constructed compared to existing uses. In addition, in accordance with NPDES requirements, the proposed Project would be required to control the rate of surface runoff, and ensure that runoff would not exceed the capacity of the existing or planned stormwater drainage system on site. Thus, no long-term runoff would be created that would exceed the capacity of the existing and planned stormwater drainage system and impacts would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**f) Otherwise substantially degrade water quality?**

**Less than Significant Impact.** Refer to Response 4.9 (a). Construction of the proposed Project would include site grading and excavation. Sediment associated with earthmoving activities and exposed soil is the most common pollutant associated with construction sites. Other pollutants associated with construction include debris/trash and other materials generated during construction activities. Stormwater and non-stormwater runoff could potentially carry these pollutants offsite and into the City's drainage system. However, all earthwork activities would be completed in accordance with LAUSD standards and applicable regulations pertaining to stormwater runoff. SC-HWQ-1, which requires compliance with LAUSD's Stormwater Technical Manual and the District's General Construction Activity Permit. All new construction Projects would be required to prepare and implement a sediment and erosion control plan that follow the BMPs outlined by the

SWRCB to comply with a Construction General Permit, including development of a SWPPP, as required by the RWQCB NPDES. Adherence to LAUSD standards and applicable regulations, compliance with the NPDES Construction General Permit, and preparation and implementation of a SWPPP prior to construction, would identify site-specific BMPs for erosion control, sediment, and other potential construction-related pollutants. The NPDES Construction General Permit and SWPPP would maintain water quality in accordance with the RWQCB standards, such that construction of the proposed Project would not violate any water quality standards. Construction impacts with regards to water quality would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?**

**No Impact.** No housing would be developed as part of the proposed Project and the Project site is not located within a Federal Emergency Management Agency (FEMA) mapped flood hazard zone.[78] The Project site is located within Zone X, which is defined by FEMA as areas determined to be outside of the 0.2 percent annual chance flood plain. Therefore, the proposed Project would not result in placing structures in a 100-year flood hazard area. Therefore, no impacts to housing from flooding would occur from the Project. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?**

**No Impact.** As discussed in Response 4.9 (g), the proposed Project is not located within a FEMA mapped flood hazard zone. The Project site is located within Zone X, which is defined by FEMA as areas determined to be outside of the 0.2 percent annual chance flood plain. Therefore, the proposed Project would not result in placing structures within 100-year flood hazard areas that would impede or redirect flood flows. Thus, no impacts to structures from flooding would occur from the Project. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?**

**No Impact**. Earthquake-induced flooding is inundation caused by failure of old dams or other water-retaining structures due to earthquakes. According to the Project-specific geotechnical evaluation, the Project site is not within a dam inundation zone.[79] Potential impacts related to flooding, including failure of a levee or dam would not occur as a result of the Project. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

[78] FEMA,2008. Flood Insurance Rate Map (FIRM) Los Angeles County, CA Panel2031 of 2350, https://msc.fema.gov/portal/search?AddressQuery=1001%20W%2015th%20St%20San%20Pedro%2C%20CA%2090731#searchresultsanchor, accessed August 17, 2017.

[79] Group Delta, 2016. Comprehensive Geotechnical Report, Campus Modernization and Retrofit, San Pedro High School, 1001 West 15th Street, Los Angeles, CA. November 4, 2016.

**j) Inundation by seiche, tsunami, or mudflow?**

**Less than Significant Impact.** Seiches are seismically or wind induced tidal phenomena that occur in enclosed bodies of water. The Project site is not located adjacent to or near a standing body of water. The nearest body of water is the Palos Verdes Reservoir, located approximately 4.0 miles northwest of the Project site. Due to its distance from the reservoir, the proposed Project is not expected to expose people or structures to a significant risk of loss, injury, or death involving inundation by seiche. Therefore, less than significant impacts from inundation by seiche would occur.

A tsunami is a sea wave of local or distant origin that results from large-scale seafloor displacements associated with earthquakes, major submarine landslides, or exploding volcanic islands. Tsunamis generally affect coastal communities and low-lying river valleys. According to the comprehensive geotechnical report, the Project site is not within a tsunami inundation zone and the Project is located approximately one mile from the Pacific Ocean/Los Angeles Harbor. The average elevation of the site is approximately 200 feet. No impact from tsunamis would occur.[80]

Mudflows occur on steep slopes where vegetation is not sufficient to prevent rapid erosion, or on gentle slopes if other conditions are met such as large sudden rainfall events. Mudflows contain large amounts of water, silt, sand, boulders, organic material, and other debris. The Project site is terraced down to the northeast with cut and fill pads. Engineered slopes are laid back or retained with wall structures. The City has mapped this area to have a potential for shallow surficial slope instability, however the site lies outside of the City's mapped landslide hazard area.[81] Therefore, the Project site is not at risk for mudflows. No impact from mudflows would occur. Further, inundation involving a seiche from the Palos Verdes Reservoir is not expected. Impacts would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

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[80] Ibid,
[81] Ibid.

# 4.10 LAND USE AND PLANNING

| | Potentially Significant Impact | Less Than Significant with Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| **X. LAND USE AND PLANNING**. Would the Project: | | | | |
| a. Physically divide an established community? | ☐ | ☐ | ☐ | ☒ |
| b. Conflict with applicable land use plan, policy or regulation of an agency with jurisdiction over the Project (including but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect? | ☐ | ☐ | ☐ | ☒ |
| c. Conflict with any applicable habitat conservation plan or natural community conservation plan? | ☐ | ☐ | ☐ | ☒ |

## 4.10.1 Discussion

Projects implemented under the SUP are anticipated to have less-than-significant impacts to land use and planning within the LAUSD service area. The Project-specific analysis provided below determined that implementation of the proposed Project would have no impacts to land use and planning in the Project area.

## 4.10.2 Impact Analysis

Would the Project:

**a) Physically divide an established community?**

**No Impact.** The proposed Project does not include any action that could divide an established community. The physical division of an established community generally refers to the construction of a feature such as an interstate highway or railroad tracks, or removal of a means of access, such as a local road or bridge that would impact mobility within an existing community or between a community and outlying area. The proposed Project lies entirely on an existing campus within an established LAUSD school boundary. The Project area is designated as public facilities and would not result in any zoning changes or changes in usage.[82] Because the proposed Project would be constructed on an established school campus, no impact related to the physical division of an established community would occur. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

[82] City of Los Angeles. ZIMAS, Planning and Zoning Map. Available at: http://zimas.lacity.org/, accessed August 17, 2017.

**b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the Project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?**

**No Impact.** As described in the Program EIR, the proposed Project would be consistent with the RTP/SCS. The proposed Project's consistency with the SCAQMD's air quality management plan will be assessed in the Air Quality section of the Draft EIR.

Further, the California legislature granted school districts the power to exempt school property from local zoning requirements, provided the school district complies with the terms of Government Code Section 53094. As lead agency for the proposed Project, LAUSD will comply with Government Code Section 53094 to render the local City of Los Angeles Zoning Ordinance inapplicable to the proposed Project. Following a two-thirds vote of the Board of Education, LAUSD can exempt a school site from such local zoning requirements. Within 10 days of the action, the Board must provide the City of Los Angeles with notice of this action.

Even if it were not exempt, the City of Los Angeles General Plan designation for the Project site is "Public Facilities". The City of Los Angeles Municipal Code – Zoning Plan has designated the proposed Project as PF: Public Facilities, or a zone for the use and development of publicly owned land, including public elementary and secondary schools. As such, the proposed Project would be consistent with all applicable land use plans.[83] No impacts would occur as a result of the Project. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**c) Conflict with any applicable habitat conservation plan or natural community conservation plan?**

**No Impact.** No habitat reserves established under the Natural Communities Conservation Plan/Habitat Conservation Plan (NCCP/HCP) are located within the District, and no other habitat conservation plans are in the District.[84] Therefore, the Project site would not be located in or conflict with a HCP/NCCP and no impacts would occur. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

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[83] American Legal Publishing Corporation. City of Los Angeles Zoning Code, Section 12.04.09, PF Public Facilities Zone. Available at : http://library.amlegal.com/nxt/gateway.dll?f=templates&fn=default.htm&vid=amlegal:la_all_mc, accessed August 11, 2017.

[84] CDFW, 2017. California Regional Conservation Plans. Available at: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=68626&inline, accessed August 16, 2017.

# 4.11 MINERAL RESOURCES

| | Potentially Significant Impact | Less Than Significant with Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| **XI. MINERAL RESOURCES**. Would the Project: | | | | |
| a. Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state? | ☐ | ☐ | ☐ | ☒ |
| b. Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan? | ☐ | ☐ | ☐ | ☒ |

## 4.11.1 Discussion

Projects implemented under the SUP are anticipated to have less-than-significant impacts to mineral resources within the LAUSD service area. The Project-specific analysis provided below determined that implementation of the proposed Project would have no impacts to mineral resources.

## 4.11.2 Impact Analysis

Would the Project:

**a) & b) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state? Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?**

**No Impact.** There are no known mineral resources within the Project site, and no known operational mineral resource recovery sites at the Project site or in the vicinity.[85] The proposed Project is located on an existing school campus. Further, the surrounding area has been developed with residential and public uses. The proposed Project is zoned as PF and the nearest mineral resources recovery site is more than 2.5 miles north of the campus.[86] The proposed Project would not result in any impacts to mineral resources since it would not result in the loss of identified mineral resources that would be of value to the region or the state. Therefore, no impacts related to mineral resources would occur from the Project. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

[85] California Geologic Survey, 2010.Update of Mineral Land Classification of Portland Cement Concrete Aggregate in San Gabriel Valley Production-Consumption Region, Los Angeles County, California Available at: ftp://ftp.consrv.ca.gov/pub/dmg/pubs/ofr/OFR_94-14/OFR_94-14_Text.pdf , accessed August 17, 2017.

[86] City of Los Angeles, 2002. General Plan, Conservation Element. Available at : https://planning.lacity.org/cwd/gnlpln/consvelt.pdf, accessed August 11, 2017.

# 4.12 NOISE

| | Potentially Significant Impact | Less Than Significant with Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| **XII. NOISE.** Would the Project result in: | | | | |
| a. Exposure of persons to or generation of noise in level in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies? | ☒ | ☐ | ☐ | ☐ |
| b. Exposure of people to or generation of excessive groundborne vibration or groundborne noise levels? | ☒ | ☐ | ☐ | ☐ |
| c. A substantial permanent increase in ambient noise levels in the Project vicinity above levels existing without the Project? | ☒ | ☐ | ☐ | ☐ |
| d. A substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project? | ☒ | ☐ | ☐ | ☐ |
| e. For a Project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Project expose people residing or working in the Project area to excessive noise levels? | ☐ | ☐ | ☐ | ☒ |
| f. For a Project within the vicinity of a private airstrip, would the Project expose people residing or working in the Project area to excessive noise levels? | ☐ | ☐ | ☐ | ☒ |

## 4.12.1 Impact Analysis

Would the Project:

**a) Result in exposure of persons to or generation of noise in level in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?**

**Potentially Significant Impact.** Construction and operational activities associated with the Project development have the potential to create noise impacts that may adversely affect surrounding residential and commercial uses. Noise levels from mobile and stationary sources may increase where construction of new buildings and other facilities are proposed. The Draft EIR will evaluate relevant noise standards and temporary and periodic noise levels associated with Project construction.

**b) Exposure of people to generation or excessive groundborne vibration or groundborne noise levels?**

**Potentially Significant Impact.** Groundborne vibration and groundborne noise could occur during the construction phase of the proposed Project. The Draft EIR will evaluate vibration standards and temporary and vibration levels which could occur during construction and operation of the Project.

**c) A substantial permanent increase in ambient noise levels in the Project vicinity above levels existing without the Project?**

**Potentially Significant Impact.** Implementation of the proposed Project has the potential to create stationary and mobile noise impacts that could adversely affect surrounding residential uses. These increases will occur as development occurs within the Project area. The Draft EIR will evaluate potential long-term noise impacts associated with the proposed Project.

**d) A substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project?**

**Potentially Significant Impact.** Construction activities associated with the proposed Project have the potential to create temporary increases in noise levels. The Draft EIR will evaluate potential construction noise impacts associated with the proposed Project.

**e) For a Project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Project expose people residing or working in the Project area to excessive noise levels?**

**No Impact.** The nearest airport to the Project site is the Torrance Municipal Airport, located approximately 7 miles northwest of the Project site. The proposed Project is not located within an airport land use plan or within 2 miles of a public airport or public use airport. No impact would occur. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**f) For a Project within the vicinity of a private airstrip, would the Project expose people residing or working in the Project area to excessive noise levels?**

**No Impact.** The Project area is not located within the vicinity of a private airstrip. No impacts would occur. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

# 4.13 PEDESTRIAN SAFETY

| | Potentially Significant Impact | Less Than Significant with Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| **XIII. PEDESTRIAN SAFETY**. Would the Project: | | | | |
| a. Substantially increase vehicular and/or pedestrian safety hazards due to a design feature or incompatible uses? | ☐ | ☐ | ☒ | ☐ |
| b. Create unsafe routes to schools for students walking from local neighborhoods? | ☐ | ☐ | ☒ | ☐ |
| c. Be located on a site that is adjacent to or near a major arterial roadway or freeway that may pose a safety hazard? | ☐ | ☐ | ☒ | ☐ |

## 4.13.1 Discussion

The Program EIR includes SCs for minimizing impacts to pedestrian safety in the existing environment in areas where future Projects would be implemented under the SUP. The applicable SC related to Project-specific pedestrian safety impacts is provided in **Table 4.13-1**.[87]

**TABLE 4.13-1**
**PEDESTRIAN SAFETY STANDARD CONDITIONS OF APPROVAL**

| Applicable SCs | Description |
|---|---|
| SC-T-4 | LAUSD shall require its contractors to submit a construction worksite traffic control plan to the local City or County jurisdiction for review prior to construction. The plan shall show the location of any haul routes, hours of operation, protective devices, warning signs, and access to abutting properties. LAUSD shall encourage its contractor to limit construction-related trucks to off-peak commute periods. As required by Caltrans, applicable transportation related safety measures shall be implemented during construction. |

Projects implemented under the Program EIR are anticipated to have less-than-significant impacts to pedestrian safety within the LAUSD service area. The Project-specific analysis provided below determined that implementation of the proposed Project would also have less-than-significant impacts to pedestrian safety.

## 4.13.2 Impact Analysis

The Project site is developed with existing school uses. The campus comprises two city blocks and is bound by West 15th Street to the north, Dana Middle School immediately to the east, West 17th Street to the south, and South Leland Street to the west. Pedestrian access and circulation is provided on sidewalks on all streets surrounding the campus. The intersections on South Leland Street along the campus frontage (West 15th, West

[87] Pedestrian Safety Standard Conditions of Approval SC-PED-1 through SC-PED-4 would not apply to the pedestrian safety analysis for the proposed Project because the Trigger for Compliance is if the Project would increase student capacity by more than 25% or 10 classrooms.

16th, and West 17th streets) are all-way stop-controlled intersections, with school crosswalk pavement markings across South Leland Street at West 15th and West 16th streets. In addition, the intersection of West 17th Street / South Alma Street is an all-way stop-controlled intersection with school crosswalk pavement markings across West 17th Street.

Would the Project:

**a) Substantially increase vehicular and/or pedestrian safety hazards due to a design feature or incompatible uses?**

**Less than Significant Impact.** The proposed Project would occur on the existing San Pedro High School campus (with no increase in enrollment); it would not directly or indirectly alter the configuration of the existing street system (including sidewalks, crosswalks or traffic control devices at intersections); it would alter vehicle access for the campus by introducing a new driveway on 17th Street for a reconfigured parking lot in the southwest corner of the Project site; and it would be designed to enhance path of travel, accessibility, and other pedestrian travel throughout the campus. The Project design would employ standard engineering practices, such as standard driveway widths and turning radii and the provision of adequate line of sight to avoid design elements that could result in hazards.[88] Vehicular/bus drop-off and pickup zones will be located in the curb lane adjacent to the campus on Leland Street and 17th Street. The student drop-off and pickup operations have been planned to minimize vehicular queuing in traffic lanes on the local street system (and to reduce queuing that currently occurs on Alma Street and 15th Street). Conformance to District policies and local ordinances would ensure that adequate access would be maintained.

Project-related construction activities would temporarily increase vehicle trips throughout the Project area and on surrounding roadways, but traffic generated during construction activity generally would be compatible with the mix of vehicle types (autos and trucks) currently using regional and local roadways. As shown in Table 4.13-1, LAUSD requires its contractors to submit a construction worksite traffic control plan (including strategies to safely accommodate students walking from local neighborhoods) to the City of Los Angeles Department of Transportation (LADOT) for review prior to construction, as required by SC-T-4. Therefore, the proposed Project would not substantially increase vehicular and/or pedestrian safety hazards. As such, impacts would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**b) Create unsafe routes to schools for students walking from local neighborhoods?**

**Less than Significant Impact.** The proposed Project would be implemented at an existing campus and would not directly or indirectly eliminate sidewalks, crosswalks or traffic control devices at intersections. As shown in Table 4.13-1, LAUSD requires its contractors to submit a construction worksite traffic control plan (including strategies to safely accommodate students walking from local neighborhoods) to LADOT for review prior to construction, as required by SC-T-4. Therefore, the proposed Project would not create unsafe routes to school

[88] LAUSD SUP Final Environmental Impact Report, September 2015, at pages 5.13-10 to 5.13-11.

for students walking from local neighborhoods. As such, impacts would be less than significant and this issue will not be further analyzed in the Draft EIR.

**c) Be located on a site that is adjacent to or near a major arterial roadway or freeway that may pose a safety hazard?**

**Less than Significant Impact.** The I-110 and State Route (SR) 47 freeways are located about two miles northeast of the Project site, accessed via the Gaffey Street arterial (which is about 0.5 miles east of the Project site). The proposed Project would be implemented at an existing campus, which is bound by South Leland Street, West 15th and West 17th Streets, and Alma Street (all two-lane local collector streets), and would not directly or indirectly alter the configuration of the existing street system, including the sidewalks, crosswalks or traffic control devices at intersections. As described previously, there are sidewalks on each street adjacent to the Project site. The intersections on South Leland Street along the campus frontage (West 15th, West 16th, and West 17th streets) are all-way stop-controlled intersections, with school crosswalk pavement markings across South Leland Street at West 15th and West 16th streets. In addition, the intersection of West 17th Street / South Alma Street is an all-way stop-controlled intersection with school crosswalk pavement markings across West 17th Street.

While temporary construction activities (including truck accessing the campus) may result in congestion for those traveling along the streets that bound the campus, the campus location would not change. As such, implementation of the proposed Project would not pose a new safety hazard, compared to current conditions.[89] All SUP Projects would implement LAUSD standards and compliance measures as necessary. Therefore, implementation of the proposed Project would not pose a safety hazard related to being on a site that is adjacent to a major arterial roadway or freeway, and impacts would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

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[89] LAUSD SUP Final Environmental Impact Report, September 2015, at pages 5.13-11 to 5.13-12.

# 4.14 POPULATION AND HOUSING

| | Potentially Significant Impact | Less Than Significant with Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| **XIV. POPULATION AND HOUSING**. Would the Project: | | | | |
| a. Induce substantial population growth in an area either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)? | ☐ | ☐ | ☐ | ☒ |
| b. Displace substantial numbers of existing housing necessitating the construction of replacement housing elsewhere? | ☐ | ☐ | ☐ | ☒ |
| c. Displace substantial numbers of people necessitating the construction of replacement housing elsewhere? | ☐ | ☐ | ☐ | ☒ |

## 4.14.1 Impact Analysis

**a)- c) No Impact.** The proposed Project site is currently an operational high school serving students in grades 9 through 12. The proposed Project would not be designed or intended to increase the student population, rather the proposed Project is intended to provide the appropriate facilities for the current student capacity. No direct or indirect population growth in the area is anticipated. There are no residents on the Project site, and the proposed Project would not result in population or housing displacement of the surrounding community. Students that are displaced by classroom demolition during construction would be relocated/housed in vacant classrooms or temporary onsite (interim relocatable) classrooms while the new facilities are being constructed. Therefore, no impacts related to population and housing would occur. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

# 4.15 PUBLIC SERVICES

| | Potentially Significant Impact | Less Than Significant with Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| **XV. PUBLIC SERVICES.** Would the Project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services: | | | | |
| a. Fire protection? | ☐ | ☐ | ☒ | ☐ |
| b. Police protection? | ☐ | ☐ | ☒ | ☐ |
| c. Schools? | ☐ | ☐ | ☒ | ☐ |
| d. Parks? | ☐ | ☐ | ☐ | ☒ |
| e. Other public facilities? | ☐ | ☐ | ☐ | ☒ |

## 4.15.1 Impact Analysis

**XV. Would the Project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:**

**a) Fire protection?**

**Less than Significant Impact.** Fire protection services would be provided by the LAFD. Fire Station 48, located at 1601 S. Grand Avenue, San Pedro, CA 90731, 0.7 miles from the Project site would be the primary responder.[90] Construction of the proposed Project may result in a temporary increase in demand for fire protection and emergency medical services. However, the proposed Project would not result in an increase in student capacity at San Pedro HS. Implementation of the proposed Project would not generate increased demands for fire protection and emergency services due to a significant increase in people on the campus. Response times would not be affected by the proposed Project because LAFD is already serving the Project site. The proposed Project would not generate the need for a new fire station, as the Project is growth accommodating, not growth inducing, since it would serve existing and expected students that already reside within the enrollment boundaries of the school. In addition, the Project would be required to comply with LAFD and City of Los Angeles Department

[90] LAFD, official website, http://www.lafd.org/, accessed August 17, 2017

of Building and Safety regulations for water availability, fire hydrant pressure, and accessibility for firefighting equipment. Further, the proposed Project would result in improved circulation that would improve emergency response to the campus. Compliance with applicable state, City and District requirements, including installation of fire sprinklers, fire alarm devices, emergency access and evacuation procedures would also ensure that impacts to fire protection services would remain less than significant. As such, no new or expanded fire protection services or facilities would be required. Therefore, impacts related to fire protection would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**b) Police protection?**

**Less than Significant Impact.** LAUSD operates its own police department, the Los Angeles School Police Department (LASPD), which provides security for the schools and centers within its jurisdiction. The Project site lies within the South Division of the LASPD. The City of Los Angeles Police Department (LAPD) would be the secondary provider of police protection within the proposed Project area. The Harbor Community Police Station located at 2175 John S. Gibson Boulevard in San Pedro, approximately 2.5 miles from the Project site, would supplement police Protection along with the LASPD.[91] Demands for police protection are generally generated by an increase in the population within a service area. The proposed Project would not increase student capacity at San Pedro HS. Implementation of the proposed Project would not generate increased demand for police services, as the Project is growth accommodating, not growth inducing, since it would serve existing student capacity within the enrollment boundaries of the school. During construction, the proposed Project has the potential to result in temporary demands for police services during construction from possible trespass, theft, and/or vandalism. However, the construction areas would be fenced and would remain secured during non-work hours. Any increase in police demands would be temporary and would not require construction of new or expanded police facilities. Further, the Project would comply with LAUSD Standards regarding emergency response procedures and school safety. Therefore, the proposed Project would not result in an increase of student capacity nor would it result in new operations requiring additional police protection. Therefore, impacts would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**c) Schools?**

**Less than Significant Impact.** The proposed Project would not increase the student population nor would it displace the current student population to offsite locations. Students temporarily displaced by construction activities would be placed in interim classrooms onsite. No other LAUSD campuses or facilities outside of San Pedro HS would be impacted by the proposed Project. Therefore, impacts would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

[91] LAPD, official website, Harbor Community Police Station, http://lapdonline.org/harbor_community_police_station, accessed August 17, 2017.

**d) Parks?**

**No Impact.** The proposed Project would not interfere with or have adverse impacts related to parks. The proposed Project would not involve new housing or long-term employment opportunities that would increase the population or lead to an increase in the need for new or altered parks. The proposed Project would enhance the existing recreational facilities in the area. The recreational facilities on the campus are available to the community for use pursuant to the Civic Center Act (CA Ed. Code Sections 38130 – 38139). No impacts would occur from the Project. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**e) Other public facilities?**

**No Impact.** The proposed Project would not result in substantial adverse impacts associated with the need for new or physically altered public facilities and/or services. The Project would not involve the construction of homes or result in an increase in population. The surrounding residential area would not be affected by the proposed Project, and therefore, no impact would occur. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

# 4.16 RECREATION

| | Potentially Significant Impact | Less Than Significant with Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| **XVI. RECREATION.** | | | | |
| a. Would the Project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated? | ☐ | ☐ | ☐ | ☒ |
| b. Does the Project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment? | ☐ | ☐ | ☒ | ☐ |

## 4.16.1 Impact Analysis

Would the Project:

**a) Would the Project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?**

**No Impact.** The proposed Project would include active and passive areas located throughout the Project site, including a courtyard and several other landscaped areas. As a result, the recreational facilities in the area would be enhanced by providing improved recreational spaces that would be accessible to the community. The proposed Project would not increase the number of students enrolled at the campus and is not growth inducing. Therefore, the Project would not increase the use of regional facilities such that substantial physical deterioration of the facility would occur and no impacts would occur. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**b) Does the Project include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment?**

**Less than Significant Impact.** The proposed Project does include recreational facilities; however, it would not require the construction or expansion of recreational facilities outside existing LAUSD-owned property. The proposed Project would include upgrades to athletic facilities on the San Pedro HS campus. These improvements would enhance the recreational facilities that are available to the community. Potential environmental impacts associated with the proposed Project (which includes improvements to the recreational facilities) are analyzed in this IS and the forthcoming Draft EIR. No significant adverse physical effect on the environment is expected as a result of the proposed Project. Therefore, environmental impacts related to community recreational facilities would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

# 4.17 TRANSPORTATION AND CIRCULATION

| | Potentially Significant Impact | Less Than Significant with Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| **XVII. TRANSPORTATION & CIRCULATION**. Would the Project: | | | | |
| a. Conflict with an applicable plan, ordinance, or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit? | ☐ | ☐ | ☒ | ☐ |
| b. Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways? | ☐ | ☐ | ☐ | ☒ |
| c. Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks? | ☐ | ☐ | ☐ | ☒ |
| d. Substantially increase hazards to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? | ☐ | ☐ | ☒ | ☐ |
| e. Result in inadequate emergency access? | ☐ | ☐ | ☒ | ☐ |
| f. Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities? | ☐ | ☐ | ☒ | ☐ |

## 4.17.1 Discussion

Projects implemented under the Program EIR are anticipated to have less-than-significant impacts related to transportation and circulation within the LAUSD service area with the incorporation of SCs. Applicable SCs related to Project-specific impacts to transportation and circulation are provided in Table 4.17-1.

**TABLE 4.17-1**

**TRANSPORTATION AND CIRCULATION STANDARD CONDITIONS OF APPROVAL**

| Applicable SCs | Description |
|---|---|
| SC-T-2 | **School Design Guide**<br>Vehicular access and parking shall comply with Section 2.3, Vehicular Access and Parking of the School Design Guide, January 2014. The Design Guide contains the following regulations related to traffic:<br>• Parking Space Requirements<br>• General Parking Guidelines<br>• Vehicular Access and Pedestrian Safety<br>• Parking Structure Security |
| SC-T-4 | LAUSD shall require its contractors to submit a construction worksite traffic control plan to the local City or County jurisdiction for review prior to construction. The plan shall show the location of any haul routes, hours of operation, protective devices, warning signs, and access to abutting properties. LAUSD shall encourage its contractor to limit construction-related trucks to off-peak commute periods. As required by Caltrans, applicable transportation related safety measures shall be implemented during construction. |

## 4.17.2 Impact Analysis

The proposed Project would occur on the existing San Pedro HS campus. Because the proposed Project would not increase capacity for enrollment or staff at the school, there would be no permanent increase in traffic generated by the Project. Therefore, the analysis presented herein focuses on potential traffic impacts associated with Project construction.

Access to the Project site is provided by a series of local and regional roads. The roads that would be used by Project-related traffic (construction workers and trucks) are anticipated to be West 14th Street and West 17th Street (two-lane local streets) from Gaffey Street (four-lane arterial), and I-110 and SR 47 (regional freeways, located about two miles northeast of the Project site). The street intersections on the expected haul routes where Project truck traffic would turn generally are controlled by traffic signals or by stop signs on all approaches.

Would the Project:

**a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?**

**Less than Significant Impact.** As stated above, school enrollment would remain the same following construction of the Project, and there would be no permanent increase in traffic generated by the school. Construction activity associated with the proposed Project is not expected to generate a substantial number of vehicle trips (truck trips or otherwise).

Construction of the proposed Project would include onsite demolition, excavation, stockpiling, grading, and building activities. In addition, trucks would intermittently deliver building materials to the site. The work hours would be such that construction workers would primarily travel to and from the Project site outside of morning and evening peak traffic hours. In most cases, truck loading/unloading would be conducted between the hours of 7:00 a.m. and 6:00 p.m., with truck trips spread throughout the day during work hours. To assist in site ingress and egress, flaggers provided by the Project contractor(s) may be used to assist or direct traffic flows to and from the local streets. The surrounding roadways would be able to support the increase in traffic from construction workers and truck activity. Potential Project-related construction traffic impacts would be mitigated by compliance with and incorporation of LAUSD SCs, such as limiting construction-related trucks to off-peak commute periods.

As shown in Table 17-1, LAUSD requires its contractors to submit a construction worksite traffic control plan to LADOT for review prior to construction, as required by SC-T-4. A "haul route permit" may be required and obtained from LADOT. Therefore, the Project would not cause an increase in traffic that is substantial in relation to the existing traffic load and capacity of the street system and impacts would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**b) Conflict with an applicable congestion management program, including, but not limited to, level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?**

**No Impact.** Level of service standards established by jurisdictions/agencies are intended to regulate long-term (permanent) traffic increases associated with new development and do not apply to short-term (temporary) traffic increases that occur during construction. As stated previously, school enrollment would remain the same following the Project, and there would be no permanent increase in traffic generated by the Project. Potential impacts associated with the proposed Project would be limited to construction activity. Specifically, increased vehicle trips and potential congestion generated by construction-related passenger vehicles and truck trips, would cease when construction is complete. Additionally, to the extent feasible, construction-related trucks (and other vehicle trips) would be limited to off-peak commute periods, consistent with SC-T-4. Implementation of the proposed Project would not result in any long-term, ongoing effects related to traffic and congestion. No impacts would occur from the Project. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location, that results in substantial safety risks?**

**No Impact.** The nearest airport (Torrance Municipal Airport) is located approximately 7 miles northwest of the Project site. Project construction would not change air traffic patterns. In addition, the proposed Project would not involve the installation of structures that could interfere with air space. No impact would occur from the Project. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?**

**Less than Significant Impact.** The proposed Project would not result in any hazards due to design features or incompatible uses. The proposed Project would be implemented at an existing school site. Vehicular/bus drop-off and pickup zones would be located in the curb lane adjacent to the campus on Leland Street and 17th Street. The student drop-off and pickup operations have been planned to minimize vehicular queuing in traffic lanes on the local street system (and to reduce queuing that currently occurs on Alma Street and 15th Street). Conformance to District policies and local ordinances would ensure that adequate access would be maintained. LAUSD would implement SC-T-2, which requires that the proposed new parking areas would be designed to meet the District's School Design Guidelines which provide requirements for campus designs that ensure that potential hazards or incompatible uses are avoided. Changes to existing roadways are not part of the proposed Project. In addition, traffic generated during Project construction would be generally compatible with the mix of vehicle types (autos and trucks) currently using the regional and local roadways surrounding the campus. As such, impacts from the Project would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**e) Result in inadequate emergency access?**

**Less than Significant Impact.** San Pedro HS is located in a developed urban area with an existing roadway network that accommodates the movements of emergency vehicles that travel in the area. Projects are required to provide emergency vehicle access for the LAFD. Conformance to District policies and local ordinances would ensure that adequate access would be maintained. Per SC-T-4, LAUSD requires its contractors to submit a construction worksite traffic control plan (including strategies to maintain emergency access at all times) to LADOT for review prior to construction. Staging areas for construction would be located on school property; therefore, emergency access to the site would not be adversely affected during Project construction. The proposed Project's impact to emergency vehicle access, therefore, would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?**

**Less than Significant Impact.** In general, adopted policies, plans, and programs pertaining to public transit, bicycle, and pedestrian travel are intended to be used for long-term planning purposes and do not apply to construction activities. The proposed Project would not directly or indirectly eliminate alternative modes of transportation, transportation corridors, or facilities (e.g., bus stops). Further, the proposed Project would not prevent the use of any roads on which public transit routes operate, and as stated above, school enrollment would remain the same following the Project; there would be no permanent increase in traffic generated by the school.

Students, faculty and staff can currently travel to school using public transit routes, bicycles and by walking. As discussed previously, there are sidewalks on all streets surrounding the school. In addition, LAUSD encourages

ride-sharing programs for students and teachers, as well as walking and riding bicycles to school. The Project site vicinity is served by the City of Los Angeles DASH San Pedro Route, with bus stops at West 19th Street and South Leland and South Alma streets, and by the County of Los Angeles Metropolitan Transit Authority , with bus stops for Route 205 and 550 located on West 13th Street at South Leland Street.

During construction activities, the Project may affect sidewalk accessibility within the San Pedro HS campus. However, any effects on sidewalk accessibility would be temporary (limited to construction), and the construction contractor would be required to ensure safe alternative routes are available. Therefore, pedestrian access to the school during construction would be minimally altered, and as required by SC-T-4, contractors would be required to submit a construction worksite traffic control plan (including strategies to manage pedestrian and bicycle circulation) to LADOT for review prior to construction. For these reasons, the Project would have a less-than-significant impact on the performance and safety of public transit, bicycle or pedestrian facilities. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

# 4.18 TRIBAL CULTURAL RESOURCES

| **XVIII. TRIBAL CULTURAL RESOURCES.** Would the Project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: | Potentially Significant Impact | Less Than Significant with Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k), or | ☐ | ☐ | ☐ | ☒ |
| b. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe. | ☐ | ☐ | ☐ | ☒ |

## 4.18.1 Discussion

The Program EIR includes SCs for minimizing impacts related to tribal cultural resources within the existing environment in areas where future Projects would be implemented under the SUP. Applicable SCs related to tribal cultural resources impacts associated with the proposed Project are provided in **Table 4.18-1**.

**TABLE 4.18-1**
**TRIBAL CULTURAL RESOURCES STANDARD CONDITIONS OF APPROVAL**

| Applicable SCs | Description |
|---|---|
| SC-TCR-1 | All work shall stop within a 30-foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist and the local Native American representative has been contacted and consulted to assist in the accurate recordation and recovery of the resources. |

## 4.18.2 Impact Analysis

Would the Project:

**Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:**

**a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k)**

**No Impact.** To date the District has not received any tribal requests to be notified about Projects in the District. However, in the unlikely event that construction-related ground disturbance results in the discovery of potential resources, SC-TCR-1 would be implemented in order to avoid potential impacts to Tribal resources. Therefore, the proposed Project would have no impact on Tribal cultural resources as defined in PRC Section 21074. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.**

**No Impact.** To date, LAUSD has not received any requests for notification or consultation from California Native American Tribes regarding resources defined by PRC Section 21074. No Tribal cultural resources were identified in the Project site and there is no substantial evidence that Tribal cultural resources have the likelihood of being discovered on the campus. Therefore, the proposed Project would have no impact on Tribal cultural resources as defined in PRC Section 21074. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

# 4.19 UTILITIES

| | Potentially Significant Impact | Less Than Significant with Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| **XIX. UTILITIES.** Would the Project: | | | | |
| a. Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board? | ☐ | ☐ | ☒ | ☐ |
| b. Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects? | ☐ | ☐ | ☒ | ☐ |
| c. Require or result in the construction of new stormwater drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects? | ☐ | ☐ | ☒ | ☐ |
| d. Have sufficient water supplies available to serve the Project from existing entitlements and resource, or are new or expanded entitlements needed? | ☐ | ☐ | ☒ | ☐ |
| e. Result in a determination by the wastewater treatment provider which serves or may serve the Project that it has adequate capacity to serve the Project's Projected demand in addition to the provider's existing commitments? | ☐ | ☐ | ☒ | ☐ |
| f. Be served by a landfill with sufficient permitted capacity to accommodate the Project's solid waste disposal needs? | ☐ | ☐ | ☒ | ☐ |
| g. Comply with federal, state, and local statutes and regulations related to solid waste? | ☐ | ☐ | ☒ | ☐ |

## 4.19.1 Discussion

The Program EIR includes SCs for minimizing impacts to utilities and service system in the existing environment in areas where future Projects would be implemented under the SUP. Applicable SCs related to Project-specific impacts to utilities and service systems are provided in **Table 4.19-1**.

**TABLE 4.19-1**
**UTILITIES AND SERVICE SYSTEMS STANDARD CONDITIONS OF APPROVAL**

| Applicable SCs | Description |
|---|---|
| SC-USS-1 | **School Design Guide.**<br>Construction and demolition waste shall be recycled to the maximum extent feasible. LAUSD has established a minimum non-hazardous construction and demolition debris recycling requirement of 75% by weight as defined in Specification 01340, Construction & Demolition Waste Management.<br><br>**Guide Specifications 2004 - Section 01340, Construction & Demolition Waste Management.**<br>This section of the LAUSD Specifications includes procedures for preparation and implementation, including reporting and documentation, of a Waste Management Plan for reusing, recycling, salvage or disposal of non-hazardous waste materials generated during demolition and/or new construction (Construction & Demolition (C&D) Waste), to foster material recovery and re-use and to minimize disposal in landfills. Requires the collection and separation of all C&D waste materials generated on-site, reuse or recycling on-site, transportation to approved recyclers or reuse organizations, or transportation to legally designated landfills, for the purpose of recycling salvaging and/or reusing a minimum of 75% of the C&D waste generated. |
| SC-USS-2 | LAUSD shall coordinate with the City of Los Angeles Department of Water and Power or other appropriate jurisdiction and department prior to the relocation or upgrade of any water facilities to reduce the potential for disruptions in service. |

## 4.19.2 Impact Analysis

Would the Project:

**a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?**

**Less than Significant Impact.** The City of Los Angeles Department of Public Works (LADPW) provides wastewater services for the Project site. The Project site is located within the Terminal Island Water Reclamation Plant (TI WRP). The TI WRP is designed to treat 15 million gallons per day, but it experiences a lower average dry-weather water flow, resulting in available treatment capacity.[92]

Construction of the proposed Project would generate a minimal volume of wastewater and would nominally increase wastewater generation. Implementation and operation of the proposed Project would not change the existing uses or introduce new uses that would exceed the wastewater treatment requirements of the Los Angeles RWQCB. As discussed previously in Section 4.6, *Geology and Soils*, the proposed Project would be required to prepare a SWPPP outlining the BMPs to be implemented to avoid or minimize runoff discharges. Further, the SWPPP would include erosion control BMPs to control and minimize erosion and sedimentation being discharged from the Project site. Additionally, any wastewater discharge by the proposed Project would be required to comply with the NPDES permit requirements. Therefore, compliance with these existing

[92] LACSD. Terminal Island Water Reclamation Plant. Available at : https://www.lacitysan.org/san/faces/home/portal/s-lsh-wwd/s-lsh-wwd-cw/s-lsh-wwd-cw-p/s-lsh-wwd-cw-p-tiwrp;jsessionid=J5jyOxBrCkF_2KlhE5ic39I32PdhvmlPORNnbi7iAPKr7WQ7Qzjf!416075125!-628142333?_afrLoop=6390492630176527&_afrWindowMode=0&_afrWindowId=null#!%40%40%3F_afrWindowId%3Dnull%26_afrLoop%3D6390492630176527%26_afrWindowMode%3D0%26_adf.ctrl-state%3D184v3zyvoo_4, accessed August 17, 2017.

regulations would result in a less-than-significant impact to wastewater treatment requirements. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental impacts?**

**Less than Significant Impact.** The proposed Project would be developed in three phases over a 3 to 4-year period. The construction schedule would have limited to no overlap between phases. All construction would occur during daytime hours, specifically 7:00 a.m. to 7:00 p.m. Monday through Friday. Construction is anticipated to begin in January 2019 and to be completed in March 2022. The proposed Project is estimated to require on average approximately 150 construction personnel per day for the heaviest period of construction. During construction, water would be required for activities such as dust control; however, these activities would be limited and temporary and would not consume large amounts of water. While wastewater at the Project site would be primarily generated by construction activities and construction workers, due to the temporary nature of the construction activities and the minimal number of construction workers, the amount of construction-related wastewater that would be generated is not expected to be substantial. Therefore, impacts associated with Project construction would be less than significant No mitigation is required and this issue will not be further analyzed in the Draft EIR.

The proposed Project would not result in increased enrollment or capacity. Therefore, implementation of the proposed Project would not increase total water consumption within the District, and would not require construction of new or expanded water treatment facilities, and impacts related to Project operation would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**c) Require or result in the construction of new stormwater drainage facilities, or expansion of existing facilities, the construction of which could cause significant environmental effects?**

**Less than Significant Impact.** As discussed previously in Section 4.9, *Hydrology and Water Quality*, construction of the proposed Project would require implementation of a SWPPP, which would outline construction BMPs for site drainage and implement an appropriate combination of monitoring and resource impact avoidance. In addition, the proposed Project would use the existing stormwater drainage facilities and would not significantly alter the onsite drainage patterns. A preliminary pre- and post-construction analysis was completed utilizing a 25-year storm event. Based on the findings, the proposed Project would not result in an increase in peak flow. The proposed Project would not require or result in construction or expansion of stormwater drainage facilities. The proposed Project site is located in a developed area of the City of Los Angeles, which contains an existing stormwater collection and conveyance system. The Project site is an existing school campus, and the proposed Project would include landscaping features which would reduce stormwater runoff from the Project site. In addition to compliance with NPDES permit requirements, applicable laws, regulations, and practices, construction and operation would ensure that impacts associated with runoff would not exceed the capacities of existing stormwater drainage systems. Implementation of SC-USS-1 and SC-USS-2 would ensure that impacts would be less than significant. Therefore, the proposed Project would not require or result in the

construction of new stormwater drainage facilities or expansion of existing facilities and impacts would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**d) Have sufficient water supplies available to serve the Project from existing entitlements and resources, or are new or expanded entitlements needed?**

**Less than Significant Impact.** Construction of the proposed Project would require water use for construction activities, such as dust control measures. However, these activities would be limited and temporary, and as such, would not consume large quantities of water such that additional supplies would be required. Therefore, short-term impacts associated with requiring additional water supply would be less than significant.

Although overall square footage of buildings would increase and efficiencies may reduce the amount of water used in the building, it is assumed that water demand would remain the same as the existing conditions due to no increase in capacity, landscaping and associated irrigation systems. Therefore, the demand for non/potable water supply would be accommodated by existing supplies. Therefore, the long-term impact to non/potable water supply would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**e) Result in a determination by the wastewater treatment provider that would serve the Project that it has inadequate capacity to serve the Project's Projected demand in addition to the provider's existing commitments?**

**Less than Significant Impact.** During construction of the proposed Project, wastewater at the Project site would be primarily generated by construction activities and construction workers. However, due to the temporary nature of the construction activities and the limited number of construction workers, the amount of construction-related wastewater that would be generated is not expected to be substantial. Therefore, short-term impacts associated with wastewater treatment would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

Although overall square footage of buildings would increase, it is assumed that wastewater demand would remain the same as existing conditions. The proposed Project would not increase student capacity. Therefore, the demand of wastewater and wastewater treatment would be accommodated by existing conditions. Therefore, the long-term impact to wastewater treatment capacity would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**f) Be served by a landfill with sufficient permitted capacity to accommodate the Project's solid waste disposal needs?**

**Less than Significant Impact.**

Excavated soil would be either directly loaded into staged trucks or temporarily stockpiled on plastic liners next to the excavation areas until it could be loaded out for off-site disposal. The soil would then be transported off-site to an appropriate licensed facility for disposal, based on previous waste profile characterization results.

The excavated soil would be segregated and managed as non-hazardous, non-RCRA hazardous, or RCRA hazardous waste.

Non-hazardous soils would be transported to an approved Class 3 landfill for disposal or use as daily cover. Non-RCRA and RCRA hazardous soils would be transported to a licensed and properly permitted Class 1 disposal facility or an out-of-state facility permitted to accept hazardous waste. The Class 1 disposal facility that accepts the RCRA hazardous soil may require that the soil be treated prior to disposal pursuant to the land ban restrictions found at Title 40, CCR, Part 376.

All non-RCRA hazardous or RCRA hazardous wastes would be disposed of at a California Class I land disposal facility or an out-of-state landfill permitted to accept such wastes. The waste management facilities listed below may be selected for this Project:

- Kettleman Hills Facility, 35251 Old Skyline Road, Kettleman, California 93239, Phone: (559) 386-9711
- Clean Harbors Buttonwillow, LLC, 2500 West Lokern Road, Buttonwillow, California, 93206, Phone: (661) 762-6200

The Kettleman Hills Facility has a remaining capacity of 500,000 cy[93] and the Clean Harbors Buttonwillow Facility has a remaining capacity of 4,900,000 cy.[94] The total combined permitted remaining capacities for Class I land disposal facilities is more than 5,000,000 cy. The disposal of up to 500 cy of soil would represent less than 1 percent of the combined permitted remaining capacities, and the Project would not exceed or significantly reduce the available landfill capacities.

Prior to Project construction, demolition of 13 buildings would occur, totaling approximately 50,904 square feet, which could generate up to 2,428 tons of debris. The Project site is served by the Los Angeles County Sanitation District (LACSD), which includes sanitary landfills, recycle centers, materials recovery/transfer facilities, and energy recovery facilities. The nearest such facility, the Puente Hills Materials Recovery Facility (MRF) accepts construction/demolition waste. The Puente Hills MRF is permitted to receive up to 4,400 tons per day and accepts on average approximately 2,760 tons per day, which leaves a remaining capacity of approximately 1,640 tons per day.[95] Thus, it is anticipated that the Puente Hills MRF would have sufficient capacity to accept the Project-related debris and would be able to accommodate the proposed Project's solid waste disposal needs during construction. Therefore, the short-term impact associated with construction would be less than significant.

Operation of the proposed Project would generate similar quantities of solid waste compared to existing conditions. Compliance with all applicable regulations related to reducing solid waste would ensure proper handling and disposal of solid waste associated with operation of the proposed Project. Additionally, all solid waste facilities serving the Project area have remaining intake capacity. Compliance with existing regulations

93 Chemical Waste Management, Inc., Remaining Landfill Capacity: https://www.wmsolutions.com/pdf/brochures/CWM_Kettleman_Hills_Brochure.pdf
94 Nielsen, David, Clean Harbors Buttonwillow, telephone conversation on March 31, 2016.
95 LACSD. Puente Hills Materials Recovery Facility. Available at: http://www.lacsd.org/solidwaste/swfacilities/mrts/phmrf/phmrffactsheet.asp, accessed August 11, 2017.

would ensure that operation of the proposed Project would result in a less than significant impact. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

**g) Comply with federal, state, and local statutes and regulations related to solid waste?**

**Less than Significant Impact.** The proposed Project would comply with all applicable federal, State, and local statutes and regulations related to the handling and disposal of solid waste materials. Construction debris would be handled and disposed of according to District Specification 01 4524, LAUSD's SCs (including but not limited to: SC-USS-1), and the applicable local and regional standards. Operation of the proposed Project would generate similar quantities of solid waste compared to existing conditions, and would require disposal within a landfill. Compliance with all applicable regulations related to reducing solid waste would ensure the proper handling and disposal of solid waste associated with the proposed Project. The proposed Project would comply with the recycling requirement in AB 341, as well as the construction and demolition (C&D) waste recycling/reuse requirement in California Green Building Standards Code Section 5.408, and LAUSD School Design Guide & Specification 01340, Construction and Demolition Waste Management, that requires the collection and separation of all C&D waste materials generated onsite, reuse or recycling onsite, transportation to approved recyclers or reuse organizations, or transportation to legally designated landfills, for the purpose of recycling salvaging and/or reusing a minimum 75 percent of the C&D waste generated. Therefore, impacts would be less than significant. No mitigation is required and this issue will not be further analyzed in the Draft EIR.

# 4.20 MANDATORY FINDINGS OF SIGNIFICANCE

| | Potentially Significant Impact | Less Than Significant with Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| **XX. MANDATORY FINDINGS OF SIGNIFICANCE.** | | | | |
| a. Does the Project have the potential to degrade the quality of the environment, substantially reduce the habitat of fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory? | ☒ | ☐ | ☐ | ☐ |
| b. Does the Project have impacts which are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of an individual Project are considerable when viewed in connection with the effects of past Projects, the effects of other current Projects, and the effects of probable future Projects). | ☒ | ☐ | ☐ | ☐ |
| c. Does the Project have environmental effects which cause substantial adverse effects on human beings, either directly or indirectly? | ☒ | ☐ | ☐ | ☐ |

## 4.20.1 Impact Analysis

Does the Project:

**a) Have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?**

**Potentially Significant Impact.** As discussed in Section 4.4, *Biological Resources*, the proposed Project would not impact any endangered fauna or flora. Further, because of the developed, residential nature of the Project vicinity, construction and operation of the proposed Project would not impact the habitat or population of the Project site and the surrounding area, the Project would not impact the habitat or population level of fish or wildlife species, nor would it threaten a plant or animal community, nor impact the range of a rare endangered plant or animal.

As discussed in Section 4.5*, Cultural Resources***,** as excavation occurs, cultural resources may be impacted. The Draft EIR will address the Project's potential impact on cultural resources and mitigation measures will be recommended, where necessary.

**b) Have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a Project are considerable when viewed in connection with the effects of past Projects, the effects of other current Projects, and the effects of probable future Projects)?**

**Potentially Significant Impact.** Implementation of the proposed Project could contribute considerably to cumulative impacts. Each of the issues identified above as potentially significant will be evaluated for cumulative impacts within the Draft EIR. Mitigation measures will be recommended, if necessary.

**c) Have environmental effects that would cause substantial adverse effects on human beings, either directly or indirectly?**

**Potentially Significant Impact.** Implementation of the proposed Project could result in significant impacts that may result in substantial adverse effects on human beings. These potential effects will be addressed in the Draft EIR, and mitigation measures will be recommended, if necessary.

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# 5. List of Preparers

## 5.1 LEAD AGENCY

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# Appendix A

## LAUSD Standard Conditions of Approval

ESA

Los Angeles Unified School District

# Standard Conditions of Approval

# San Pedro High School Comprehensive Modernization Project

August 2017

# Standard Conditions of Approval

*The following Standard Conditions of Approval have been updated since the adoption of the 2015 version in order to incorporate and reflect changes in the recent laws, regulations, and the Los Angeles Unified School District's standard policies, practices, and specifications.*

| Apply if Checked | Reference # | Topic | Trigger for Compliance | Implementation Phase | Standard Conditions | Original Source | Responsible Implementing Party | Signature of Responsible Party (OEHS) |
|---|---|---|---|---|---|---|---|---|
| **AESTHETICS** | | | | | | | | |
| ☒ | SC-AE-1 | Degradation of neighborhood character | Demolition of historic building or construction of a new building | During project design (Planning) | **School Design Guide.** This document outlines measures for re-use rather than destruction of historical resources. Requires the consideration of architectural appearance/consistency and other aesthetic factors during the preliminary design review for a proposed school upgrade project. Architectural quality must consider compatibility with the surrounding community. | School Design Guide. Los Angeles Unified School District. Current Version. | Design Builder | _____ Signature Title: Date: |
| ☒ | SC-AE-2 | Degradation of neighborhood character | May increase graffiti and accumulation of rubbish and debris along the walls adjacent to public rights-of-way | During project operation (Planning, Construction & Post-Construction) | **School Design Guide.** This document outlines measures to reduce aesthetic impacts around schools, such as shrubs and ground treatments that deter taggers, vandal-resistant and graffiti-resistant materials, painting, etc. | School Design Guide. Los Angeles Unified School District. Current Version. | Design Builder and LAUSD, FSD, M&O | _____ Signature Title: Date: |
| ☒ | SC-AE-3 | Degradation of neighborhood character and viewshed obstruction | Increase density, height, bulk, or decrease setback compared to the surrounding neighborhood; increase opportunities for graffiti | During project design (Planning) | LAUSD shall assess a proposed project's consistency with the general character of the surrounding neighborhood, including any proposed changes to the density, height, bulk, and setback of new building (including stadium), addition, or renovation. Where feasible, LAUSD shall make appropriate design changes to reduce or eliminate viewshed obstruction and degradation of neighborhood character. Such design changes could include, but are not limited to, changes to campus layout, height of buildings, landscaping, and/or the architectural style of buildings. | 2004 New Construction Program EIR Mitigation Measure **AE-1.1**, adopted by the Board of Education on June 2004. | Design Builder | _____ Signature Title: Date: |
| ☐ | SC-AE-4 | Outdoor signs with electronic message display | Install or change a school marquee | Prior to final design and prior to and during installation | **Marquee Signs Bulletin BUL-5004.1.** This policy provides guidance for the procurement and installation of marquee signs (outdoor sign with electronic message display) on District campuses. The policy includes requirements for the design, approval, placement, operation, and maintenance of electronic school marquees erected and operated at a LAUSD schools. The policy also includes measures to mitigate light and glare, such as the use of "luminaries" in connection with school construction. | School marquees (outdoor sign with electronic message display). BUL-5004.1 adopted May 25, 2010. | Design Builder | _____ Signature Title: Date: |

# Standard Conditions of Approval

| Apply if Checked | Reference # | Topic | Trigger for Compliance | Implementation Phase | Standard Conditions | Original Source | Responsible Implementing Party | Signature of Responsible Party (OEHS) |
|---|---|---|---|---|---|---|---|---|
| ☐ | SC-AE-5 | Shadows | Construction of buildings or structures taller than surrounding neighborhood | Prior to project approval | **OEHS CEQA Specification Manual, Appendix F, Protocol for Shadow Analysis in CEQA Documents for Proposed School Sites.**<br>This document outlines the methodology and impact thresholds for shadow analysis. | LAUSD OEHS CEQA Specification Manual, Appendix F, Protocol For Shadow Analysis In CEQA Documents For Proposed School Sites. December 2005, Revised June 2007. | LAUSD OEHS | Signature<br>Title:<br>Date: |
| ☒ | SC-AE-6 | Light and glare | Generate additional light and/or glare | During and after installation of lights (Construction) | **School Design Guide.**<br>This document outlines requirements for lighting and measures to minimize glare for pedestrians, drivers and sports teams, and to avoid light spilling onto adjacent properties. | School Design Guide. Los Angeles Unified School District. Current Version. | Design Builder | Signature<br>Title:<br>Date: |
| ☒ | SC-AE-7 | Light and glare | Generate additional light and/or glare | Prior to building occupation, first stadium event, or first use of lights (Construction) | LAUSD shall reduce the lighting intensity from the new sources on adjacent residences to no more than two foot-candles, measured at the residential property line. LAUSD shall utilize hoods, filtering louvers, glare shields, and/or landscaping as necessary to achieve the standard. The lamp enclosures and poles shall also be painted to reduce reflection. Following installation of lights the lighting contractor shall review and adjust lights to ensure the standard is met. | 2004 New Construction Program EIR Mitigation Measure **AE-1.2**, adopted by the Board of Education on June 2004. | Design Builder | Signature<br>Title:<br>Date: |
| ☒ | SC-AE-8 | Light and glare | Generate additional light and/or glare | Prior to building occupation, first stadium event, or first use of lights (Construction) | Design site lighting and select lighting styles and technologies to have minimal impact off-site and minimal contribution to sky glow. Minimize outdoor lighting of architectural and landscape features and design interior lighting to minimize trespass outside from the interior. International Dark-Sky Association (IDA) and the Illuminating Engineering Society (IES) Model Lighting Ordinance (MLO) shall be used a guide for environmentally responsible outdoor lighting. The MLO outdoor lighting has outdoor lighting standards that reduce glare, light trespass, and skyglow. The Joint IDA-IESNA Model Outdoor Lighting Ordinance (MLO) uses lighting zones (LZ0-4) which allow the District to vary the stringency of lighting restrictions according to the sensitivity of the area as well as consideration for the community. The MLO also incorporates the Backlight-Uplight-Glare (BUG) rating system for luminaires, which provides more effective control of unwanted light. IDA-IESNA Model establishes standards to:<br>• Limit the amount of light that can be used<br>• Minimize glare by controlling the amount of light that tends to create glare | Based on The Collaborative for High Performance Schools. High Performance Schools Best Practices Manual, Volume III— Criteria. Version 1.0, November 1, 2001. Adopted by the Board of Education on October 28, 2003. Updated 2009 CHPS Scorecard with 2011 Amendments. SS5.1: Light Pollution Reduction. Includes additional language from International Dark-Sky Association (IDA). | Design Builder | Signature<br>Title:<br>Date: |

| Apply if Checked | Reference # | Topic | Trigger for Compliance | Implementation Phase | Standard Conditions | Original Source | Responsible Implementing Party | Signature of Responsible Party (OEHS) |
|---|---|---|---|---|---|---|---|---|
| | | | | | • Minimize sky glow by controlling the amount of uplight<br>• Minimize the amount of off-site impacts or light trespass | | | |
| **AIR QUALITY** | | | | | | | | |
| ☐ | SC-AQ-1 | Air Toxics Health Risk | Place new classrooms or outdoor play areas:<br>- Within ¼-mile of mobile and stationary emission sources<br>- Within 500 feet of a major transportation corridor (freeway, major rail line)<br>- Within 500 feet of a major stationary source of emissions<br>- On the LAUSD priority list of schools most at risk from air pollution<br>- Near a high-risk facility previously identified by the OEHS. | Prior to project approval (Planning) | **OEHS CEQA Specification Manual, Appendix J, Air Toxics Health Risk Assessment (HRA).**<br>This document includes guidance on HRA protocols for permitted, nonpermitted, and mobile sources that might reasonably be anticipated to emit hazardous air emissions and result in potential long-term and short-term health impacts to student and staff at the school site. | LAUSD OEHS CEQA Specification Manual, Appendix J, Air Toxics Health Risk Assessment (HRA). December 2005, Revised June 2007. | LAUSD OEHS | Signature<br>Title:<br>Date: |
| ☒ | SC-AQ-2 | Construction Emissions | Requires the use of large construction equipment | During construction | LAUSD's construction contractor shall ensure that construction equipment is properly tuned and maintained in accordance with manufacturer's specifications, to ensure excessive emissions are not generated by unmaintained equipment. | LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR. | Design Builder | Signature<br>Title:<br>Date: |

# Standard Conditions of Approval

| Apply if Checked | Reference # | Topic | Trigger for Compliance | Implementation Phase | Standard Conditions | Original Source | Responsible Implementing Party | Signature of Responsible Party (OEHS) |
|---|---|---|---|---|---|---|---|---|
| ☒ | SC-AQ-3 | Construction Emissions | Requires a removal action for soil contamination | During construction | LAUSD's construction contractor shall:<br>• Maintain slow speeds with all vehicles.<br>• Load impacted soil directly into transportation trucks to minimize soil handling.<br>• Water/mist soil as it is being excavated and loaded onto the transportation trucks.<br>• Water/mist and/or apply surfactants to soil placed in transportation trucks prior to exiting the site.<br>• Minimize soil drop height into transportation trucks or stockpiles during dumping.<br>• During transport, cover or enclose trucks transporting soils, increase freeboard requirements, and repair trucks exhibiting spillage due to leaks.<br>• Cover the bottom of the excavated area with polyethylene sheeting when work is not being performed.<br>• Place stockpiled soil on polyethylene sheeting and cover with similar material.<br>Place stockpiled soil in areas shielded from prevailing winds. | LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR. | Design Builder | _____<br>Signature<br>Title:<br>Date: |
| ☒ | SC-AQ-4 | Construction Emissions | Exterior construction and the use of large, heavy or noisy construction equipment | During planning and construction (Planning & Construction) | LAUSD shall prepare an air quality assessment:<br>If site-specific review of a school construction project identifies potentially significant adverse regional and localized construction air quality impacts, then LAUSD shall implement all feasible measures to reduce air emissions below the South Coast Air Quality Management District's (SCAQMD) regional and localized significance thresholds.<br>LAUSD shall mandate that construction bid contracts include the measures identified in the air quality assessment. Measures shall reduce construction emissions during high-emission construction phases from vehicles and other fuel driven construction engines, activities that generate fugitive dust, and surface coating operations. Specific air emission reduction measures include, but are not limited to, the following:<br><u>Exhaust Emissions</u><br>• Schedule construction activities that affect traffic flow to off-peak hours (e.g. between 10:00 AM and 3:00 PM).<br>• Consolidate truck deliveries and/or limit the number of haul trips per day. | 2004 New Construction Program EIR Mitigation Measure **AQ-2.1**, adopted by the Board of Education on June 2004**.** | LAUSD OEHS<br>and<br>Design Builder | _____<br>Signature<br>Title:<br>Date: |

| Apply if Checked | Reference # | Topic | Trigger for Compliance | Implementation Phase | Standard Conditions | Original Source | Responsible Implementing Party | Signature of Responsible Party (OEHS) |
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| | | | | | • Route construction trucks off congested streets.<br>• Employ high pressure fuel injection systems or engine timing retardation.<br>• Utilize ultra-low sulfur diesel fuel, containing 15 ppm sulfur or less (ULSD) in all diesel construction equipment.<br>• Use construction equipment rated by the United States Environmental Protection Agency as having Tier 3 (model year 2006 or newer) or Tier 4 (model year 2008 or newer) emission limits for engines between 50 and 750 horsepower.<br>• Restrict non-essential diesel engine idle time, to not more than five consecutive minutes.<br>• Utilize electrical power rather than internal combustion engine power generators as soon as feasible during construction.<br>• Utilize electric or alternatively fueled equipment, if feasible.<br>• Utilize construction equipment with the minimum practical engine size.<br>• Utilize low-emission on-road construction fleet vehicles.<br>• Ensure construction equipment is properly serviced and maintained to the manufacturer's standards.<br><br><u>Fugitive Dust</u><br>• Apply non-toxic soil stabilizers according to manufacturers' specification to all inactive construction areas (previously graded areas inactive for ten days or more).<br>• Replace ground cover in disturbed areas as quickly as possible.<br>• Sweep streets at the end of the day if visible soil material is carried onto adjacent public paved roads (recommend water sweepers with reclaimed water).<br>• Install wheel washers where vehicles enter and exit unpaved roads onto paved roads, or wash off trucks and any equipment leaving the site each trip.<br>• Pave construction roads that have a traffic volume of more than 50 daily trips by construction equipment, and/or 150 daily trips for all vehicles.<br>• Pave all construction access roads for at least 100 feet from the main road to the project site. | | | |

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| | | | | | • Water the disturbed areas of the active construction site at least three times per day, except during periods of rainfall.<br>• Enclose, cover, water twice daily, or apply non-toxic soil binders according to manufacturers' specifications to exposed piles (i.e., gravel, dirt, and sand) with a five percent or greater silt content.<br>• Suspend all excavating and grading operations when wind speeds (as instantaneous gusts) exceed 25 miles per hour (mph).<br>• Apply water at least three times daily, except during periods of rainfall, to all unpaved road surfaces.<br>• Limit traffic speeds on unpaved road to 15 mph or less.<br>• Prohibit high emission causing fugitive dust activities on days where violations of the ambient air quality standard have been forecast by SCAQMD.<br>• Tarp and/or maintain a minimum of 24 inches of freeboard on trucks hauling dirt, sand, soil, or other loose materials.<br>• Limit the amount of daily soil and/or demolition debris loaded and hauled per day.<br><br><u>General Construction</u><br>• Utilize ultra-low VOC or zero-VOC surface coatings.<br>• Phase construction activities to minimize maximum daily emissions.<br>• Configure construction parking to minimize traffic interference.<br>• Provide temporary traffic control during construction activities to improve traffic flow (e.g., flag person).<br>• Develop a trip reduction plan for construction employees.<br>• Implement a shuttle service to and from retail services and food establishments during lunch hours.<br>• Increase distance between emission sources to reduce near-field emission impacts.<br>• Require construction contractors to document compliance with the identified mitigation measures. | | | |
| ☐ | SC-AQ-5 | Air Pollutant Emissions | Increases student capacity and/or generates additional traffic | During school operation | LAUSD shall encourage ride-sharing programs for students and teachers as well as maintain fleet vehicles such as school buses, maintenance vehicles, and other service fleet vehicles in good condition in order to prevent significant increases in air pollutant emissions created by operation of a new school. | LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR. | LAUSD OEHS<br>and<br>School Administration | _____<br>Signature<br>Title:<br>Date: |

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| **BIOLOGICAL RESOURCES** | | | | | | | | |
| ☒ | SC-BIO-1 | Sensitive Species and Habitat | May affect sensitive species and/or their habitat within or near a project site<br><br>Alter surface drainage in a way that affects sensitive species and/or their habitat | As part of the site-specific CEQA review process; agency coordination prior to the start of construction; monitoring during construction | LAUSD qualified biologist shall identify sensitive species and their habitat within or near proposed project site. LAUSD will conduct a literature search, which shall consider a one-mile radius beyond the project construction site and shall be performed by a qualified biologist with knowledge of local biological conditions as well as the use and interpretation of the data sources identified below. Where appropriate, in the opinion of the biologist, the literature search shall be supplemented with a site visit and/or aerial photo analysis. Resources and information that shall be investigated for each site should include, but not be limited to:<br>• USFWS<br>• National Marine Fisheries Services (NMFS)<br>• CDFW<br>• California Native Plant Society (CNPS)<br><br>• County and/or city planning or environmental offices for sensitive species, habitat, and/or heritage trees that may not exist on published databases.<br>• CNDDB<br>• CNPS Rare Plant Inventory<br>• Local Audubon Society<br>• Los Angeles County Department of Regional Planning for information on Significant Ecological Areas<br>• California Digital Conservation Atlas for district-wide location of reserves, plan areas, and land trusts that may overlap with project sites.<br><br><u>Biological Resources Report</u><br>If the LAUSD qualified biologist determines that a school construction project will affect an identified sensitive plant, animal, or habitat, a biological resources report shall be prepared. To provide a complete assessment of the flora and fauna within and adjacent to a site-specific project impact area, with particular emphasis on identifying endangered, threatened, sensitive, and locally unique species and sensitive habitats, the biological resources report shall include the following. | 2004 New Construction Program EIR Mitigation Measures **B-1.1** and **B-1.2**, adopted by the Board of Education on June 2004.<br><br>Recommendations as listed in CDFW SUP Draft EIR comment letter dated August 4, 2014. | LAUSD OEHS | _____<br>Signature<br>Title:<br>Date: |

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| | | | | | • Information on regional setting that is critical to the assessment of rare or unique resources<br>• A thorough, recent floristic-based assessment of special status plans and natural communities, following the CDFW's *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities*. CDFW recommends that floristic, alliance- and/or association-based mapping and vegetation impact assessments be conducted at the project site and neighboring vicinity. The *Manual of California Vegetation (Sawyer et al.)* should also be used to inform this mapping and assessment. Adjoining habitat areas should be included in this assessment where site activities could lead to direct or indirect6 impacts offsite. Habitat mapping at the alliance level will help establish baseline vegetation conditions.<br>• A current inventory of the biological resources associated with each habitat type onsite and within the area of potential effect. CDFW's California Natural Diversity Data Base (CNDDB) should be contacted to obtain current information on any previously reported sensitive species and habitat, including Significant Natural Areas identified under Chapter 12 of the Fish and Game Code.<br>• An inventory of rare, threatened, and endangered, and other sensitive species onsite and within the area of potential effect. Species to be addressed should include all those identified in CEQA Guidelines Section 15380, including sensitive fish, wildlife, reptile, and amphibian species. Seasonal variations in use of the project area should also be addressed. Focused species-specific surveys, conducted at appropriate time of year and time of day when sensitive species are active or otherwise identifiable, are required. Acceptable species-specific survey procedures should be developed in consultation with the CDFW and USFWS.<br>• A discussion of the potential adverse impacts from light, noise, human activity, exotic species, and drainage. Drainage analysis should address project-related changes on drainage patterns on and downstream from the site; the volume, velocity, and frequency of existing and post- project surface flows; polluted runoff; soil erosion and/or sedimentation in streams and water bodies; and post-project fate of runoff from the project site.<br>• Discussions about direct and indirect project impacts on biological resources, including resources in nearby public lands, open space, | | | |

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| | | | | | adjacent natural habitats, wetland and riparian ecosystems, and any designated and/or proposed or existing reserve lands (e.g., preserve lands associated with a NCCP). Impacts on, and maintenance of, wildlife corridor/movement areas, including access to undisturbed habitats in adjacent areas.<br>• Mitigation measures for adverse project-related impacts to sensitive plants, animals, and habitats. Measures should emphasize avoidance and reduction of biological impacts. For unavoidable impacts, onsite habitat restoration or enhancement should be outlined. If onsite measures are not feasible or would not be biologically viable, offsite measures through habitat creation and/or acquisition and preservation in perpetuity should occur. This measure should address restrictions on access, proposed land dedications, monitoring and management programs, control of illegal dumping, water pollution, increased human intrusion, etc.<br>• Plans for restoration and vegetation shall be prepared by qualified biologist with expertise in southern California ecosystems and native plant vegetation techniques. Plans shall include, at a minimum:<br><br>- location of the mitigation site<br>- plant species to be used, container sizes, and seeding rates<br>- schematic depicting the mitigation area<br>- planting schedule<br>- irrigation method<br>- measures to control exotic vegetation<br>- specific success criteria<br>- detailed monitoring program<br>- contingency measures should the success criteria not be met<br>- identification of the party responsible for meeting the success criteria and providing for conservation of the site in perpetuity.<br><br>LAUSD shall consult with the U.S. Army Corps of Engineers, USFWS and/or the CDFW and comply with any permit conditions or directives from those agencies regarding the protection, relocation, creation, and/or compensation. | | | |

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| ☒ | SC-BIO-2 | Light Impacts to Sensitive Species | New outdoor lighting that is near sensitive species habitat | During lighting installation and prior to first use of lights (Construction) | LAUSD shall protect sensitive species from harmful exposure to light by shielding light sources, redirecting light sources, or using low intensity lighting. | 2004 New Construction Program EIR Mitigation Measure **B-1.3**, adopted by the Board of Education on June 2004. | Design Builder | _____<br>Signature<br>Title:<br>Date: |
| ☒ | SC-BIO-3 | Bird and Bat Nesting Sites | Project site or construction staging are near and/or cause direct disturbances to native and nonnative vegetation, structures, and/or substrates during nesting season (February 1 through August 31; as early as January 1 for some raptors) | Prior to start of construction (Construction) | LAUSD shall comply with the following:<br>• Project activities (including, but not limited to, staging and disturbances to native and nonnative vegetation, structures, and substrates[1]) should occur outside of avian breading season to avoid take of birds or their eggs.[2] Depending on the avian species present, a qualified biologist may determine that a change in the breeding season dates is warranted.<br>• If avoidance of the avian breeding season is not feasible, beginning 30 days prior to the initiation of the project activities, a qualified biologist with experience in conducting breeding bird surveys shall conduct weekly bird surveys to detect protected native birds occurring in suitable nesting habitat that is to be disturbed and (as access to adjacent areas allows) any other such habitat within 300 feet of the disturbance area (within 500 feet for raptors). The surveys shall continue on a weekly basis with the last survey being conducted no more than three days prior to the initiation of project activities. If a protected native bird is found, LAUSD shall delay all project activities within 300 feet of the suitable nesting habitat (within 500 feet for suitable raptor nesting habitat) until August 31. Alternatively, the qualified biologist could continue the surveys in order to locate any nests. If an active nest is located, project activities within 300 feet of the nest (within 500 feet for raptor nests), or as determined by a qualified biologist, shall be postponed until the nest is vacated and juveniles have fledged and there is no evidence of a second attempt at nesting. Flagging, stakes, and/or construction fencing shall be used to demarcate the inside boundary of the 300- or 500-foot buffer between the project activities and the nest. Project personnel, including all contractors working on site, shall be instructed on the sensitivity of the area. | 2004 New Construction Program EIR Mitigation Measure **B-1.4**, adopted by the Board of Education on June 2004.<br><br>Recommendations as listed in CDFW SUP Draft EIR comment letter dated August 4, 2014. | Design Builder | _____<br>Signature<br>Title:<br>Date: |

[1] Substrate is the surface on which a plant or animal lives.
[2] Take means to hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture or kill (Fish and Game Code Section 86), and includes take of eggs and/or young resulting from disturbances that cause abandonment of active nests.

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| | | | | | LAUSD shall provide results of the recommended protective measures to document compliance with applicable State and Federal laws pertaining to the protection of native birds.<br>• If the qualified biologist determines that a narrower buffer between the project activities and observed active nests is warranted, a written explanation as to why (e.g., species-specific information; ambient conditions and birds' habituation to them; and the terrain, vegetation, and birds' lines of sight between the project activities and the nest and foraging areas) shall be submitted to LAUSD OEHS project manager. Construction contractors can then reduce the demarcated buffer.<br>• No construction shall occur within the fenced next zone until the young have fledged, are no longer being fed by the parents, have left the nest, and will no longer by impacted the construction.<br>• A biological monitor shall be present on site during all grubbing and clearing of vegetation to ensure that these activities remain outside the demarcated buffer and that the flagging, stakes, and/or construction fencing are maintained, and to minimize the likelihood that active nests are abandoned or fail due to project activities. The biological monitor shall send weekly monitoring reports to LAUSD OEHS project manager during the grubbing and clearing of vegetation, and shall notify LAUSD immediately if project activities damage avian nests. | | | |
| ☒ | SC-BIO-4 | Native Oak Trees | Removal of any native mature oak trees or woodland habitat | During construction | LAUSD shall comply with the following:<br>• Mitigation shall not include translocation of rare plants. CDFW, in most cases does not recommend translocation, salvage, and/or transplantation of rare, threatened, or endangered plant species, in particular oak trees, as compensation for adverse effects because successful implementation of translocation is rare. Even if translocation is initially successful, it will typically fail to persist over time.<br>• **Permanent conservation of habitat.** To ensure the conservation of sensitive plant species, the preferred method is permanent conservation of habitat containing these species; any translocation proposed shall only be an experimental component of a larger, more robust plan.<br>• **Off-site acquisition of woodland habitat.** Due to the inherent difficulty in creating functional woodland habitat with associated understory components, the preferred method is off-site acquisition | 2004 New Construction Program EIR Mitigation Measure **B-3.1**, adopted by the Board of Education on June 2004.<br><br>Recommendations as listed in CDFW SUP Draft EIR comment letter dated August 4, 2014. | Design Builder | _____<br>Signature<br>Title:<br>Date: |

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| | | | | | of woodland habitat in the local area. All acquired habitat shall be protected under a conservation easement and deeded to a local land conservancy for management and protection.<br>• **Creation of oak woodlands**. Any creation of functioning woodlands shall be of similar composition, structure, and function of the affected oak woodland. The new woodland shall mimic the function, demonstrate recruitment, plant density, and percent basil, canopy, and vegetation cover, as well as other measurable success criteria before the measure is deemed a success.<br>- All seed and shrub sources used for tree and understory species in the new planting site shall be collected or grown from on-site sources or from adjacent areas and shall not be purchased from a supplier. This method should reduce the risk of introducing diseases and pathogens into areas where they might not currently exist.<br>- Oaks should be replaced by planting acorns because this has been shown to result in greater oak survival. Monitoring efforts, including the exclusion of herbivores, shall be employed to maximize seedling survival during the monitoring period.<br>- Monitoring period for oak woodland shall be at least 10 years with a minimum of seven years without supplemental irrigation. This allows the trees to go through one typical drought cycle. This should also be the minimal time needed to see signs of stress and disease and determine the need for replacement plantings.<br>LAUSD shall request CDFW review and comment on any translocation plans, habitat preservation, habitat creation and/or restoration plans. | | | |
| ☒ | SC-BIO-5 | Wetlands, Riparian Habitat, and other Sensitive Natural Community | May affect wetlands, riparian habitat, and other sensitive natural community | As part of the site-specific CEQA review process; agency coordination prior to the start of construction; monitoring | LAUSD shall comply with CDFW recommendations as listed below:[3]<br>• Project development or conversion that results in a reduction of wetland acreage or wetland habitat values shall not occur unless, at a minimum, replacement or preservation results in "no net loss" of either wetland habitat values or acreage.<br>• All wetlands and watercourses, whether intermittent or perennial, should be retained and provided with substantial setbacks which | 2004 New Construction Program EIR Mitigation Measures **B-1.1** and **B-1.2**, adopted by the Board of Education on June 2004.<br><br>Recommendations as listed in CDFW SUP Draft EIR | LAUSD OEHS | _____<br>Signature<br>Title:<br>Date: |

[3] Recommendations as listed in CDFW SUP Draft EIR comment letter dated August 4, 2014.

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| | | | | during and after construction | preserve the riparian and aquatic values and maintain their value to on-site and off-site wildlife populations.<br>• A jurisdictional delineation of creeks and their associated riparian habitats shall be conducted as part of the biological resources report. The delineation should be conducted pursuant to the USFWS wetland definition.<br>• Implementation of recommended measures shall compensate for affected mature riparian corridors and loss of function and value of wildlife corridors. | comment letter dated August 4, 2014. | | |
| **CULTURAL RESOURCES** | | | | | | | | |
| ☒ | SC-CUL-1 | Treatment of Historical Resources | Project may directly or indirectly affect historical resources (i.e., buildings, structures, historic districts, and contributing site plan and landscaping features that are either designated or eligible for local, state, or federal landmark listing) | During project design, design development, pre-construction and construction (Planning & Construction) | **Design Build Team to Include Qualified Historic Architect**<br><br>For campuses with qualifying historical resources under CEQA, the Design-Build team shall include a qualified Historic Architect. The Historic Architect shall provide input to ensure ongoing compliance, as project plans progress, with the *Secretary of the Interior's Standards* and LAUSD requirements and guidelines for the treatment of historical resources (specific requirements follow in SC-CUL-2).<br><br>For projects involving structural upgrades to historic resources, the Design-Build team shall include a qualified Structural Engineer with a minimum of eight (8) years of demonstrated project-level experience in Historic Preservation.<br><br>The Historic Architect/s shall meet the Secretary of the Interior's Professional Qualifications Standards and the standards described on page 8 of the *LAUSD Design Guidelines and Treatment Approaches for Historic Schools*. The Historic Architect shall provide input throughout the design and construction process to ensure ongoing compliance with the above-mentioned standards. | Los Angeles Unified School District Design Guidelines and Treatment Approaches for Historic Schools. January 2015.<br><br>LAUSD OEHS CEQA Specification Manual, Appendix H, Historical Resources Policy, (Appendix E.2) LAUSD Cultural Resource Assessment Procedures. December 2005, Revised June 2007. | Design Builder and Historic Architect | _____<br>Signature<br>Title:<br>Date: |

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| ☒ | SC-CUL-2 | Treatment of Historical Resources | Project may directly or indirectly affect historical resources (i.e., buildings, structures, historic districts, and contributing site plan and landscaping features that are either designated or eligible for local, state, or federal landmark listing) | During project design, design development, pre-construction and construction (Planning & Construction) | **Role of Historic Architect on Design-Build Team**<br><br>The tasks of the Historic Architect on the Design-Build team shall include (but not necessarily be limited to) the following:<br><br>1. The Historic Architect shall work with the Design Builder and LAUSD to ensure that project components, including new construction and modernization of existing facilities, continue to comply with applicable historic preservation standards, including the *Secretary of the Interior's Standards for the Treatment of Historic Properties* and *LAUSD Design Guidelines and Treatment Approaches for Historic Schools*. The Historic Architect shall work with the Design-Builder throughout the design process to develop project options that facilitate compliance with the applicable historic preservation standards.<br><br>2. For new construction, the Historic Architect shall work with the Design-Builder and LAUSD to identify options and opportunities for (1) ensuring compatibility of scale and character for new construction, site and landscape features, and circulation corridors, and (2) ensuring that new construction is designed and sited in such a way that reinforces and strengthens, as much as feasible, character-defining site plan features, landscaping, and circulation corridors throughout campus.<br><br>3. For modernization and upgrade projects involving contributing (significant) buildings or features, the Historic Architect shall work with the Design-Builder and LAUSD to ensure that specifications for design and implementation of projects comply with the applicable historic preservation standards.<br><br>4. The Historic Architect shall participate in design team meetings through all phases of the project through 100 percent construction drawings, pre-construction, and construction phases. | School Design Guide. Los Angeles Unified School District. Current Version.<br><br>Los Angeles Unified School District Design Guidelines and Treatment Approaches for Historic Schools. January 2015. | Historic Architect | _____<br>Signature<br>Title:<br>Date: |

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| | | | | | 5. The Historic Architect shall produce brief memos, at the 50 percent and 100 percent construction drawings stages, demonstrating how principal project components and treatment approaches comply with applicable historic preservation standards, including the *Secretary of the Interior's Standards for the Treatment of Historic Properties* and *LAUSD Design Guidelines and Treatment Approaches for Historic Schools*. The memos will be reviewed by LAUSD and incorporated into the Mitigation Monitoring and Report Plan (MMRP) for the project.<br><br>6. The Historic Architect shall participate in pre-construction and construction monitoring activities to ensure continuing conformance with Secretary's Standards and/or avoidance of a material impairment of the historical resources.<br><br>7. The Historic Architect shall provide specialized Construction Specifications Institute (CSI) specifications for architectural features or materials requiring restoration, removal, or on-site storage. This shall include detailed instructions on maintaining and protecting in place relevant features.<br><br>8. The Design-Builder and Historic Architect shall be responsible for incorporating LAUSD's recommended updates and revisions during the design development and review process. | | | |
| ☒ | SC-CUL-3 | Treatment of Historical Resources | Project may directly or indirectly affect historical resources (i.e., buildings, structures, historic districts, and contributing site plan and landscaping features that | During project design, design development, pre-construction and construction (Planning & Construction) | **School Design Guide** and **LAUSD Design Guidelines and Treatment Approaches for Historic Schools**<br><br>LAUSD has adopted policies and guidelines that apply to projects involving historic resources. The Design-Builder and Historic Architect shall apply these guidelines, which include the *LAUSD School Design Guide* and *LAUSD Design Guidelines and Treatment Approaches for Historic Schools* and the *Secretary's Standards* for all new construction and upgrade/modernization projects. In keeping with the district's adopted policies and goals, LAUSD shall re-use rather than destroy historical resources where feasible. | School Design Guide. Los Angeles Unified School District. Current Version.<br><br>Los Angeles Unified School District Design Guidelines and Treatment Approaches for Historic Schools. January 2015. | Design Builder and Historic Architect | _____<br>Signature<br>Title:<br>Date: |

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| | | | are either designated or eligible for local, state, or federal landmark listing) | | LAUSD shall follow the guidelines outlined in these documents to the maximum extent practicable when planning and implementing projects and adjacent new construction involving historical resources. General guidelines shall include:<br><br>• Retain and preserve the historic character of buildings, structures, landscapes, and site features that are historically significant.<br>• Repair rather than remove, replace, or destroy character-defining features; if replacement is necessary, replace in-kind to match in materials and appearance.<br>• Avoid removing, obscuring, or destroying character-defining features and materials.<br>• Treat distinctive architectural features or examples of skilled craftsmanship that characterize a building with sensitivity.<br>• Conceal reinforcement required for structural stability or the installation of life safety or mechanical systems.<br>• Undertake surface cleaning, preparation of surfaces, and other projects involving character-defining features using the least invasive, gentlest means possible. Avoid sandblasting and chemical treatments. | | | |
| ☒ | SC-CUL-4 | Historical Resource Document | Demolition or potential damage to any recognized historic resources or any contributors to a historic district | Prior to demolition or major alteration (Planning & Construction) | Prior to demolition or mothballing activities, LAUSD shall retain a professional architectural photographer and a historian or architectural historian who meets the Secretary of the Interior's Professional Qualifications Standards to prepare HABS-like documentation for the historical resources slated for demolition.<br><br>The HABS-like package will document in photographs and descriptive and historic narrative the historical resources slated for demolition. Documentation prepared for the package will draw upon primary- and secondary-source research and available studies previously prepared for the project. Measured drawings shall not be required for the project.<br><br>The specifications for the HABS-like package follow:<br><br>**Photographs:** Photographic documentation will focus on the historical resources/features slated for demolition, with overview and context | 2004 New Construction Program EIR Mitigation Measure **C-1.5**, adopted by the Board of Education on June 2004. | Design Builder | _____<br>Signature<br>Title:<br>Date: |

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| | | | | | photographs for the campus and adjacent setting. Photographs will be taken of interior and exterior features of the buildings using a professional-quality single lens reflex (SLR) digital camera with a minimum resolution of 10 megapixels. Photographs will include context views, elevations/exteriors, architectural details, overall interiors, and interior details (if warranted). Digital photographs will be printed in black and white on archival film paper and also provided in electronic format.<br><br>**Descriptive and Historic Narrative:** The historian or architectural historian will prepare descriptive and historic narrative of the historical resources/features slated for demolition. Physical descriptions will detail each resource, elevation by elevation, with accompanying photographs, and information on how the resource fits within the broader campus during its period of significance. The historic narrative will include available information on the campus design, history, architect/contractor/designer as appropriate, area history, and historic context. In addition, the narrative will include a methodology section specifying the name of researcher, date of research, and sources/archives visited, as well as a bibliography. Within the written history, statements shall be footnoted as to their sources, where appropriate.<br><br>**Historic Documentation Package Submittal:** The draft package will be assembled by the historian or architectural historian and submitted to LAUSD for review and comment. After final approval, one hard-copy set of the package will be prepared as follows: Photographs will be individually labeled and stored in individual acid-free sleeves. The remaining components of the historic documentation package (site map, photo index, historic narrative, and additional data) will be printed on archival bond, acid-free paper.<br><br>Upon completion of the descriptive and historic narrative, all materials will be compiled in electronic format and presented to LAUSD for review and approval. Upon approval, one hard-copy version of the historic documentation package will be prepared and submitted to LAUSD. The historian or architectural historian shall offer a hardcopy package and compiled, electronic version of the final package to the Los Angeles Public Library (Central Library), Los Angeles Historical | | | |

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| | | | | | Society, and the South Central Coastal Information Center, to make available to researchers. | | | |
| ☒ | SC-CUL-5 | Historical Resource Reuse | Demolition of any of the recognized historic structures | Prior to demolition or alteration (Construction) | LAUSD, consistent with Education Code Section 17540, shall offer to sell any useful features of the school building (e.g., the school bell, chalkboards, lockers) that do not contain hazardous materials for use or display, if features are not retained by LAUSD for reuse or display. | none | Design Builder | _____ Signature Title: Date: |
| ☒ | SC-CUL-6 | Historical Resource Reuse | Demolition of any of the recognized historic structures | Prior to demolition or alteration (Construction) | LAUSD, consistent with Education Code Section 17545, shall offer for sale any remaining functional and defining features and building materials from the buildings. These materials could include doors, windows, siding, stones, lighting, doorknobs, hinges, cabinets, and appliances, among others. They shall be made available to the public for sale and reuse, if features are not retained by LAUSD for reuse or display. | none | Design Builder | _____ Signature Title: Date: |
| ☒ | SC-CUL-7 | Archaeological Resource | Project area is deemed highly sensitive for archaeological resources | Prior to and during grading, excavation, or other ground-disturbing activities (Construction) | LAUSD shall retain a qualified archaeologist to be available on-call. The qualified archaeologist shall meet the Secretary of the Interior's Professional Qualifications Standards (48 Federal Register 44738–39). | none | Design Builder | _____ Signature Title: Date: |
| ☒ | SC-CUL-8 | Historic and Archaeological Resource | Historical or unique archaeological resources are discovered during construction activities | During grading, excavation, or other ground-disturbing activities (Construction) | The contractor shall halt construction activities in the immediate area and notify the LAUSD. LAUSD shall retain a qualified archeologist to make an immediate evaluation of significance and appropriate treatment of the resource. To complete this assessment, the qualified archeologist will be afforded the necessary time to recover, analyze, and curate the find. The qualified archeologist shall recommend the extent of archeological monitoring necessary to ensure the protection of any other resources that may be in the area. Construction activities may continue on other parts of the building site while evaluation and treatment of historical or unique archaeological resources takes place. | 2004 New Construction Program EIR Mitigation Measure **C-1.7**, adopted by the Board of Education on June 2004. | Design Builder | _____ Signature Title: Date: |
| ☐ | SC-CUL-9 | Archaeological Resource Monitoring Program | Phase I Archaeological Site Investigation shows a strong possibility that | Prior to the start of construction | LAUSD shall implement an archaeological monitoring program for construction activities at a site prepared by a qualified archaeologist under the following conditions: (1) when a Phase I Site Investigation shows a strong possibility that unique archeological resources are buried on the site; and/or (2) when unique archaeological resources have been identified on a site, but LAUSD does not implement a | 2004 New Construction Program EIR Mitigation Measure **C-1.8**, adopted by the Board of Education on June 2004. | Design Builder | _____ Signature Title: Date: |

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| | | | unique resources, and/or unique architectural resources have been identified on a site | | Phase III Data Recovery/Mitigation Program because the resources can be recovered through the archaeological monitoring program. | | | |
| ☒ | SC-CUL-10 | Archaeological Resource | Evidence of prehistoric or historic cultural resources is uncovered | During grading, excavation, or other ground-disturbing activities (Construction) | All work shall stop within a 30-foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist. The qualified archaeologist shall assess the find(s) and, if it is determined to be of value, shall draft a monitoring program and oversee the remainder of the grading program. Should evidence of prehistoric or historic cultural resources be found the archaeologist shall monitor all ground-disturbing activities related to the proposed project. Any significant archaeological resources found shall be preserved as determined necessary by the archaeologist and offered to a local museum or repository willing to accept the resource. Any resulting reports shall also be forwarded to the South Central Coastal Information Center at the California State University, Fullerton. | none | Design Builder | _____<br>Signature<br>Title:<br>Date: |
| ☒ | SC-CUL-11 | Archaeological Resource | Project construction requires archaeological monitoring | Prior to the start grading, excavation, or other ground-disturbing activities (Construction) | Cultural resources sensitivity training shall be conducted by a qualified archaeologist for all construction workers involved in moving soil or working near soil disturbance. This training shall review the types of archaeological resources that might be found, along with laws for the protection of resources. | none | Design Builder | _____<br>Signature<br>Title:<br>Date: |
| ☒ | SC-CUL-12 | Archaeological Resource | Unique archaeological resources are discovered and LAUSD determines not to avoid them by abandoning the site or redesigning the project | During grading, excavation, or other ground-disturbing activities (Construction) | LAUSD shall determine whether it is feasible to prepare and implement a Phase III Data Recovery/Mitigation Program. A Phase III Data Recovery/Mitigation Program would be designed by a Qualified Archaeologist to recover a statistically valid sample of the archaeological remains and to document the site to a level where the impacts can be determined to be less than significant. All documentation shall be prepared in the standard format of the ARMR Guidelines, as prepared by the OHP. Once a Phase III Data Recovery/Mitigation Program is completed, an archaeological monitor shall be present on site to oversee the grading, demolition activities, and/or initial construction activities to ensure that construction proceeds in accordance with the adopted Phase III Data Recovery/Mitigation Program. The extent of the Phase III Data | 2004 New Construction Program EIR Mitigation Measure **C-1.9**, adopted by the Board of Education on June 2004. | Design Builder | _____<br>Signature<br>Title:<br>Date: |

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| | | | | | Recovery/Mitigation Program and the extent and duration of the archaeological monitoring program depend on site-specific factors. | | | |
| ☒ | SC-CUL-13 | Native American Resource | Evidence of Native American resources is uncovered | During grading, excavation, or other ground-disturbing activities (Construction) | All work shall stop within a 30-foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist and the local Native American representative has been contacted and consulted to assist in the accurate recordation and recovery of the resources. | none | Design Builder | _____ Signature Title: Date: |
| ☒ | SC-CUL-14 | Paleontological Resource | Cultural Resources Assessment identifies a project area as sensitive for paleontological resources | During grading, excavation, or other ground-disturbing activities (Construction) | LAUSD shall have a paleontological monitor on-call during construction activities. This monitor shall provide the construction crew(s) with a brief summary of the sensitivity, the rationale behind the need for protection of these resources, and information on the initial identification of paleontological resources. If paleontological resources are uncovered during construction, the on-call paleontologist shall be notified and afforded the necessary time and funds to recover, analyze, and curate the find(s). Subsequently, the monitor shall remain on site for the duration of the ground disturbances to ensure the protection of any other resources that may be in the area. | 2004 New Construction Program EIR Mitigation Measure **C-1.10**, adopted by the Board of Education on June 2004. | Design Builder | _____ Signature Title: Date: |
| ☐ | SC-CUL-15 | Paleontological Resource | Project area is deemed highly sensitive for paleontological resources | During grading, excavation, or other ground-disturbing activities | The paleontological monitor shall be on site for all ground altering activities and shall advise LAUSD as to necessary means of protecting potentially significant paleontological resources, including, but not limited to, possible cessation of construction activities in the immediate area of a find. If resources are identified during the monitoring program, the paleontologist shall be afforded the necessary time and funds to recover, analyze, and curate the find(s). Subsequently, the monitor shall remain on site for the duration of the ground disturbances to insure the protection of any other resources that may be in the area. | 2004 New Construction Program EIR Mitigation Measure **C-1.11**, adopted by the Board of Education on June 2004. | Design Builder | _____ Signature Title: Date: |
| **GEOLOGY and SOILS** | | | | | | | | |
| ☒ | SC-GEO-1 | Seismic Hazards | Requires grading, excavation, or other ground-disturbing activities | During project design, and project construction (Planning & Construction) | **OEHS CEQA Specification Manual, Appendix G, Supplemental Geohazard Assessment Scope of Work.** This document outlines the procedures and scope for LAUSD geohazard assessments. | LAUSD OEHS CEQA Specification Manual, Appendix G, Supplemental Geohazard Assessment Scope of Work. December 2005, Revised June 2007. | Design Builder | _____ Signature Title: Date: |

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| **GREENHOUSE GAS EMISSIONS** | | | | | | | | |
| ☒ | SC-USS-1 | Construction Waste Management | Generate construction and/or demolition debris | Prior to start and during construction (Construction) | **School Design Guide.**<br>Construction and demolition waste shall be recycled to the maximum extent feasible. LAUSD has established a minimum non-hazardous construction and demolition debris recycling requirement of 75% by weight as defined in Specification 01340, Construction & Demolition Waste Management.<br>**Guide Specifications 2004 - Section 01340, Construction & Demolition Waste Management.**<br>This section of the LAUSD Specifications includes procedures for preparation and implementation, including reporting and documentation, of a Waste Management Plan for reusing, recycling, salvage or disposal of non-hazardous waste materials generated during demolition and/or new construction (Construction & Demolition (C&D) Waste), to foster material recovery and re-use and to minimize disposal in landfills. Requires the collection and separation of all C&D waste materials generated on-site, reuse or recycling on-site, transportation to approved recyclers or reuse organizations, or transportation to legally designated landfills, for the purpose of recycling salvaging and/or reusing a minimum of 75% of the C&D waste generated. | • School Design Guide. Current Version;<br>• Specification 01340, Construction & Demolition Waste Management, July 7, 2003;<br>• LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR;<br>• Guide Specifications 2004. Division 1. Section 01340, Construction & Demolition Waste Management. July 7, 2003;<br>The Collaborative for High Performance Schools. High Performance Schools Best Practices Manual, Volume III— Criteria. Version 1.0, November 1, 2001. Adopted by the Board of Education on October 28, 2003. Updated 2009 CHPS Scorecard with 2011 Amendments. Prerequisite. Construction Waste Management. ME2.0C.P1 and LAUSD 2014 School Design Guide. | Design Builder | _____<br>Signature<br>Title:<br>Date: |
| ☒ | SC-GHG-1 | Water Use and Efficiency | Requires work on water pumps, valves, | During school operation | During school operation, LAUSD shall perform regular preventative maintenance on pumps, valves, piping, and tanks to minimize water loss. | LAUSD Best Management Practices, adopted by the Board of Education on | LAUSD M&O | _____<br>Signature<br>Title: |

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| | | | piping, and/or tanks | (Post-Construction) | | June 2004 as part of the 2004 Program EIR | | Date: |
| ☒ | SC-GHG-2 | Water Use and Efficiency | Requires work on landscape irrigation system | Prior to full operation of irrigation system (Post-Construction) | LAUSD shall utilize automatic sprinklers set to irrigate landscaping during the early morning hours to reduce water loss from evaporation. | LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR | LAUSD M&O | _____ Signature Title: Date: |
| ☒ | SC-GHG-3 | Water Use and Efficiency | Requires work on landscape irrigation system | Prior to full operation of irrigation system (Post-Construction) | LAUSD shall reset automatic sprinkler timers to water less during cooler months and rainy season. | LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR | LAUSD M&O | _____ Signature Title: Date: |
| ☒ | SC-GHG-4 | Water Use and Efficiency | Requires work on landscape and/or irrigation system | Prior to full operation of irrigation system (Construction) | LAUSD shall develop a water budget for landscape (both non-recreational and recreational) and ornamental water use to conform to the local water efficient landscape ordinance. If no local ordinance is applicable, then use the landscape and ornamental budget outlined by the California Department of Water Resources. | The Collaborative for High Performance Schools. High Performance Schools Best Practices Manual, Volume III— Criteria. Version 1.0, November 1, 2001. Adopted by the Board of Education on October 28, 2003. Updated 2009 CHPS Scorecard with 2011 Amendments. Prerequisite. Construction Waste Management. WE1.0C.P1 and LAUSD 2014 School Design Guide. | LAUSD M&O | _____ Signature Title: Date: |
| ☒ | SC-GHG-5 | Energy Efficiency | Building construction | Prior to occupancy (Planning & Construction) | LAUSD shall ensure that the time dependent valued energy of the proposed project design is at least 10 percent, with a goal of 20 percent less than a standard design that is in minimum compliance with the California Title 24, Part 6 energy efficiency standards that are in force at the time the project is submitted to the Division of the State Architect. | The Collaborative for High Performance Schools. High Performance Schools Best Practices Manual, Volume III— Criteria. Version 1.0, November 1, 2001. Adopted by the Board of Education on October 28, 2003. Updated 2009 CHPS Scorecard with 2011 Amendments. | Design Builder and LAUSD FSD and M&O | _____ Signature Title: Date: |

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| | | | | | | Prerequisite. Energy Efficiency. EE1.0C.P1 and LAUSD 2014 School Design Guide. | | |
| **HAZARDS and HAZARDOUS MATERIALS** | | | | | | | | |
| ☐ | SC-HAZ-1 | Electro-magnetic fields | Place new classrooms or outdoor play areas near power lines or cell towers | Prior to project approval | **OEHS CEQA Specification Manual, Appendix M, Criteria for School Siting in Proximity to High Voltage Power Lines.** Board of Education resolutions (Effects of Non-Ionizing Radiation-2000, Wireless Telecommunication Installations-2009 and T-Mobile Cell Tower Notification and Condemnation-2009) regarding electromagnetic field (EMF) and radiofrequency exposures associated with cellular towers near schools whereby a prohibition exists regarding siting towers on school campuses. | LAUSD OEHS CEQA Specification Manual, Appendix M, Criteria for School Siting in Proximity to High Voltage Power Lines. December 2005, Revised June 2007.<br>Board of Education resolutions:<br>• Effects of Non-Ionizing Radiation-2000<br>• Wireless Telecommunication Installations-2009<br>• T-Mobile Cell Tower Notification and Condemnation-2009 | LAUSD OEHS and FSD | _____<br>Signature<br>Title:<br>Date: |
| ☐ | SC-HAZ-2 | Pipeline Hazards | Place new classrooms or outdoor play areas near hazardous pipelines | Prior to project approval | **OEHS CEQA Specification Manual, Appendix L, Pipeline Safety Hazard Analysis.** This document outlines the process for evaluating safety hazards associated with underground and above-ground natural gas and hazardous liquid pipelines. The pipeline safety hazard assessment (PSHA) process determines whether potential releases of natural gas, petroleum product and crude oil from pipelines located near a school site pose a safety risk to students and staff. | LAUSD OEHS CEQA Specification Manual, Appendix L, Pipeline Safety Hazard Analysis. December 2005, Revised June 2007. | LAUSD OEHS | _____<br>Signature<br>Title:<br>Date: |
| ☐ | SC-HAZ-3 | Rail Hazards | Place new classrooms or outdoor play areas within 1,500 feet of a railroad track easement | Prior to project approval | **OEHS CEQA Specification Manual, Appendix K, Rail Safety Study Protocol.** This document provides a guidance protocol for conducting a Rail Safety Study (RSS). It is designed to assist in evaluating whether traffic on rail lines within a 1,500-foot radius of a school site poses an unreasonable safety hazard to students and staff at the school. | LAUSD OEHS CEQA Specification Manual, Appendix K, Rail Safety Study. December 2005, Revised June 2007. | LAUSD OEHS | _____<br>Signature<br>Title:<br>Date: |

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| ☐ | SC-AQ-1 | Air Toxics Health Risk | Place new classrooms or outdoor play areas within ¼-mile of emission sources | Prior to project approval | **OEHS CEQA Specification Manual, Appendix J, Air Toxics Health Risk Assessment (HRA).** This document includes guidance on HRA protocols for permitted, nonpermitted, and mobile sources that might reasonably be anticipated to emit hazardous air emissions and result in potential long-term and short-term health impacts to student and staff at the school site. | LAUSD OEHS CEQA Specification Manual, Appendix J, Air Toxics Health Risk Assessment (HRA). December 2005, Revised June 2007. | LAUSD OEHS | _____ Signature Title: Date: |
| **HYDROLOGY and WATER QUALITY** | | | | | | | | |
| ☒ | SC-HWQ-1 | Storm Water Requirements | Land disturbance | During construction (Construction) | **Stormwater Technical Manual** This manual establishes design requirements and provides guidance for the cost-effective improvement of water quality in new and significantly redeveloped LAUSD school sites. These guidelines are intended to improve water quality and mitigate potential impacts to the Maximum Extent Practicable (MEP). While these guidelines meet current post-construction Standard Urban Stormwater Mitigation Plan (SUSMP) requirements. The guidelines address the mandated post-construction element of the NPDES program requirements. | Stormwater Technical Manual. Prepared for LAUSD by Geosyntec Consultants. October 2009. | Design Builder | _____ Signature Title: Date: |
| ☒ | SC-HWQ-2 | Storm Water Requirements | Land disturbance | During construction (Construction) | **Compliance Checklist for Storm Water Requirements at Construction Sites.** This checklist has requirements for compliance with the General Construction Activity Permit and is used by OEHS to evaluate permit compliance. Requirements listed include a SWPPP; BMPs for minimizing storm water pollution to be specified in a SWPPP; and monitoring storm water discharges to ensure that sedimentation of downstream waters remains within regulatory limits. | OEHS Compliance Checklist for Storm Water Requirements at Construction Sites. No Date. | Design Builder | _____ Signature Title: Date: |
| ☒ | SC-HWQ-3 | Miscellaneous Requirements | Ongoing maintenance and repair | During construction and operation (Construction & Post-Construction) | LAUSD shall implement the following programs and procedures, as applicable:<br>• Environmental Training Curriculum<br>• Hazardous Waste Management Program<br>• Medical Waste Management Program<br>• Environmental Compliance Inspections<br>• Safe School Inspections<br>• Integrated Pest Management Program<br>• Fats Oil and Grease Management Program<br>Solid Waste Management Program | • Environmental Training Curriculum<br>• Hazardous Waste Management Program<br>• Medical Waste Management Program<br>• Environmental Compliance Inspections<br>• Safe School Inspections<br>• Integrated Pest Management Program | Design Builder | _____ Signature Title: Date: |

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| | | | | | | • Fats Oil and Grease Management Program<br>• Solid Waste Management Program | | |
| ☐ | SC-HWQ-4 | Flood Hazards | Site acquisition | During project design (Planning) | The analysis for new projects shall include evaluation of all possible flood hazards as determined by: (1) review of FEMA flood maps; (2) review of flood information provided by local city or county floodplain managers; (3) review of California Department of Water Resources dam safety information; and, (4) local drainage analysis by a civil engineer. The flood hazard determination shall include consideration of tsunamis and debris flow. New projects should be located outside of these hazard areas, if practical. | 2004 New Construction Program EIR Mitigation Measure **HWQ-5.1**, adopted by the Board of Education on June 2004. | LAUSD OEHS | _____<br>Signature<br>Title:<br>Date: |
| ☐ | SC-HWQ-5 | Flood Hazards | Site acquisition | During project design | Where placing the project outside the floodplain is impractical, the school or project structure shall be protected from flooding by containment and control of flood flows (e.g., elevating lowest floors at least one foot above the expected 100-year flood level). | 2004 New Construction Program EIR Mitigation Measures, adopted by the Board of Education on June 2004. **HWQ-5.2** | LAUSD OEHS and FSD | _____<br>Signature<br>Title:<br>Date: |
| ☐ | SC-HWQ-6 | Tsunami Hazards | Place new classrooms or outdoor play areas within 0.62 mile of the coast, and less than 100 feet above mean sea level | Prior to classroom occupation | LAUSD shall evaluate tsunami hazards to determine if the project site is within a tsunami inundation zone as delineated by CalEMA or NOAA. If the project site is within a tsunami hazard zone LAUSD shall prepare and implement a tsunami awareness program and evacuation plan. This plan shall comply with the provisions of the LAUSD Emergency Operations Plan. | 2004 New Construction Program EIR Mitigation Measure **HWQ-5.3**, adopted by the Board of Education on June 2004. | LAUSD OEHS and FSD | _____<br>Signature<br>Title:<br>Date: |
| ☐ | SC-HWQ-7 | Debris Flow | Place new classrooms or outdoor play areas in areas subject to potentially damaging debris flow | During project design | LAUSD shall consult with the Los Angeles County Department of Public Works, and/or local city officials, as appropriate, regarding the debris flow potential near the mouth of or in natural canyons and feasible mitigation measures shall be developed to reduce any potential risk. Potential debris flow hazards shall be reduced by one or more of the following: adequate building setbacks from natural slopes, construction of debris control facilities in upstream areas, monitoring and maintaining potential debris flow areas and basins. In addition, potential loss shall be minimized by establishing an evacuation plan, and elevated awareness and early warning of pending events. | 2004 New Construction Program EIR Mitigation Measure **HWQ-5.4**, adopted by the Board of Education on June 2004. | LAUSD OEHS and FSD | _____<br>Signature<br>Title:<br>Date: |

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| **NOISE** | | | | | | | | |
| ☒ | SC-N-1 | Exterior Campus Noise | Exterior noise levels are or would be greater than 70 dBA $L_{10}$ or 67 dBA $L_{eq}$ | During project design | LAUSD shall include features such as sound walls, building configuration, and other design features in order to attenuate exterior noise levels on a school campus to less than 70 dBA $L_{10}$ or 67 dBA $L_{eq}$. | 2004 New Construction Program EIR Mitigation Measure **N-1.1**, adopted by the Board of Education on June 2004. | LAUSD OEHS and FSD and Design Builder | _____ Signature Title: Date: |
| ☒ | SC-N-2 | Interior Classroom Noise | Interior classroom noise levels would be greater than 55 dBA $L_{10}$ or 45 dBA $L_{eq}$ | During project design | LAUSD shall analyze the acoustical environment of the site (such as traffic) and the characteristics of planned building components (such as heating, ventilation, and air conditioning [HVAC]), and design to achieve interior classroom noise levels of less than 55 dBA $L_{10}$ or 45 dBA $L_{eq}$ with maximum (unoccupied) reverberation times of 0.6 seconds. Noise reduction methods shall include, but are not limited to, sound walls, building and/or classroom insulation, HVAC modifications, double-paned windows, and other design features in order to achieve the noise standards.<br>• The District should acknowledge the ANSI (American National Standards Institute) S12 standard as a District goal that may presently not be achievable in all cases.<br>• Where economically feasible, new school design should achieve classroom acoustical quality consistent with the ANSI standard and in no event exceed the current CHPS (California High Performance Schools) standard of 45 dBA.<br>• Where economically feasible, new HVAC (Heating, Ventilating, and Air Conditioning) installations should be designed to achieve the lowest possible noise level consistent with the ANSI standard. In no event should these installations exceed the current CHPS standard of 45 dBA.<br>• To promote the development of lower noise emitting HVAC units, the District's purchase of new units should give preference to manufacturers producing the lowest noise level at the lowest cost.<br>• Existing HVAC units operating in excess of 50 dBA should be modified. | 2004 New Construction Program EIR Mitigation Measure **N-1.2**, adopted by the Board of Education on June 2004. | LAUSD OEHS and FSD and Design Builder | _____ Signature Title: Date: |
| ☒ | SC-N-3 | Traffic Noise | Project-related traffic noise level exceeds local noise standards, | Prior to project approval | LAUSD shall require an acoustical analysis to identify feasible measures to reduce traffic noise increases to 3 dBA CNEL or less at the noise-sensitive land use. LAUSD shall implement recommended measures to reduce noise. | 2004 New Construction Program EIR Mitigation Measure **N-2.1**, adopted by the Board of Education on June 2004. | LAUSD OEHS | _____ Signature |

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| | | | policies, or ordinances | | | | | Title:<br>Date: |
| ☒ | SC-N-4 | Operational Noise | Operational noise levels exceeds local noise standards, policies, or ordinances at noise-sensitive land uses | During project design and construction | LAUSD shall incorporate long-term permanent noise attenuation measures between playgrounds, stadiums, and other noise-generating facilities and noise-sensitive land uses, to reduce noise levels to meet jurisdictional standards or an increase of 3 dB or less over ambient. Operational noise attenuation measures include, but are not limited to:<br>• buffer zones<br>• berms<br>• sound barriers:<br>– buildings<br>– masonry walls<br>– enclosed bleacher foot wells<br>– other site-specific project design features. | 2004 New Construction Program EIR Mitigation Measure **N-2.2**, adopted by the Board of Education on June 2004. | Design Builder | _____<br>Signature<br>Title:<br>Date: |
| ☒ | SC-N-5 | Construction Noise and Vibration (Annoyance) | Construction on an existing school campus | Prior to construction | LAUSD Facilities Division or its construction contractor shall consult and coordinate with the school principal or site administrator, and other nearby noise sensitive land uses prior to construction to schedule high noise or vibration producing activities to minimize disruption. Coordination between the school, nearby land uses and the construction contractor shall continue on an as-needed basis throughout the construction phase of the project to reduce school and other noise sensitive land use disruptions. | 2004 New Construction Program EIR Mitigation Measure **N-3.1**, adopted by the Board of Education on June 2004. | Design Builder | _____<br>Signature<br>Title:<br>Date: |
| ☒ | SC-N-6 | Vibration (Structural Damage) | Rock blasting or demolition activities | During construction | The LAUSD shall require the construction contractor to minimize blasting for all construction and demolition activities, where feasible. If demolition is necessary adjacent to residential uses or fragile structures, the LAUSD shall require the construction contractor to avoid using impact tools. Alternatives that shall be considered include mechanical methods using hydraulic crushers or deconstruction techniques. | 2004 New Construction Program EIR Mitigation Measure **N-5.1**, adopted by the Board of Education on June 2004. | Design Builder | _____<br>Signature<br>Title:<br>Date: |
| ☒ | SC-N-7 | Vibration (Structural Damage) | Pile driving or heavy vibration activities | During construction (Construction) | For projects where pile driving activities are required within 150 feet of a structure, a detailed vibration assessment shall be provided by an acoustical engineer to analyze potential impacts related to vibration to nearby structures and to determine feasible mitigation measures to eliminate potential risk of architectural damage. | none | | _____<br>Signature<br>Title:<br>Date: |
| ☒ | SC-N-8 | Vibration (Structural Damage) | Vibration intensive activities are | Prior to and during | LAUSD shall meet with the construction contractor to discuss alternative methods of demolition and construction for activities within 25 feet of a historic building to reduce vibration impacts. During the preconstruction | none | Design Builder | _____<br>Signature |

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| | | | planned within 25 feet of a historic building or structure | demolition and construction (Construction) | meeting, the construction contractor shall identify demolition methods not involving vibration-intensive construction equipment or activities. For example: sawing into sections that can be loaded onto trucks results in lower vibration levels than demolition by hydraulic hammers.<br>• Prior to construction activities, the construction contractor shall inspect and report on the current foundation and structural condition of the historic building.<br>• The construction contractor shall implement alternative methods identified in the preconstruction meeting during demolition, excavation, and construction for work done within 25 feet of the historic building.<br>• The construction contractor shall avoid use of vibratory rollers and packers adjacent to a historic building.<br>• During demolition the construction contractor shall not phase any ground-impacting operations near a historic building to occur at the same time as any ground impacting operation associated with demolition and construction of a new building.<br>During demolition and construction, if any vibration levels cause cosmetic or structural damage to a historic building the District shall issue "stop-work" orders to the construction contractor immediately to prevent further damage. Work shall not restart until the building is stabilized and/or preventive measures to relieve further damage to the building are implemented. | | | Title:<br>Date: |
| ☒ | SC-N-9 | Construction Noise | Exterior construction and the use of large, heavy or noisy construction equipment | During construction (Construction) | LAUSD shall prepare a noise assessment.<br>If site-specific review of a school construction project identifies potentially significant adverse construction noise impacts, then LAUSD shall implement all feasible measures to reduce below applicable noise ordinances. Exterior construction noise levels exceed local noise standards, policies, or ordinances at noise-sensitive receptors. LAUSD shall mandate that construction bid contracts include the measures identified in the noise assessment. Specific noise reduction measures include, but are not limited to, the following:<br><u>Source Controls</u><br>• Time Constraints – prohibiting work during sensitive nighttime hours<br>• Scheduling – performing noisy work during less sensitive time periods (on operating campus: delay the loudest noise generation | LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR. | Design Builder | _____<br>Signature<br>Title:<br>Date: |

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| | | | | | until class instruction at the nearest classrooms has ended; residential: only between 7:00 AM and 7:00 PM)<br>• Equipment Restrictions – restricting the type of equipment used<br>• Noise Restrictions – specifying stringent noise limits<br>• Substitute Methods – using quieter methods and/or equipment<br>• Exhaust Mufflers – ensuring equipment have quality mufflers installed<br>• Lubrication & Maintenance – well maintained equipment is quieter<br>• Reduced Power Operation – use only necessary size and power<br>• Limit Equipment On-Site – only have necessary equipment on-site<br>• Noise Compliance Monitoring – technician on site to ensure compliance<br>• Quieter Backup Alarms – manually-adjustable or ambient sensitive types<br><u>Path Controls</u><br>• Noise Barriers – semi-permanent or portable wooden or concrete barriers<br>• Noise Curtains – flexible intervening curtain systems hung from supports<br>• Enclosures – encasing localized and stationary noise sources<br>• Increased Distance – perform noisy activities farther away from receptors, including operation of portable equipment, storage and maintenance of equipment<br><u>Receptor Controls</u><br>• Window Treatments – reinforcing the building's noise reduction ability<br>• Community Participation – open dialog to involve affected residents<br>• Noise Complaint Process – ability to log and respond to noise complaints. Advance notice of the start of construction shall be delivered to all noise sensitive receptors adjacent to the project area. The notice shall state specifically where and when construction activities will occur, and provide contact information for filing noise complaints with the contractor and the District. In the event of noise complaints the LAUSD shall monitor noise from the construction activity to ensure that construction noise does not exceed limits specified in the noise ordinance. | | | |

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| | | | | | Temporary Relocation – in extreme otherwise unmitigatable cases. Temporarily move residents or students to facilities away from the construction activity. | | | |
| **PEDESTRIAN SAFETY** | | | | | | | | |
| ☐ | SC-PED-1 | Pedestrian Safety Analysis | Increase student capacity by more than 25% or 10 classrooms | During project design | **Caltrans SRTS program.**<br>LAUSD is a participant in the SRTS program administered by Caltrans and local law enforcement and transportation agencies. OEHS provides pedestrian safety evaluations as a component of traffic studies conducted for new school projects. This pedestrian safety evaluation includes a determination of whether adequate walkways and sidewalks are provided along the perimeter of, across from, and adjacent to a proposed school site and along the paths of identified pedestrian routes within a 0.25-mile radius of a proposed school site. The purpose of this review is to ensure that pedestrians are adequately separated from vehicular traffic. | OEHS pedestrian safety evaluation | LAUSD OEHS | _____<br>Signature<br>Title:<br>Date: |
| ☐ | SC-PED-2 | Pedestrian Safety Analysis | Increase student capacity by more than 25% or 10 classrooms | During project design | **OEHS CEQA Specification Manual, Appendix C, Traffic and Pedestrian Safety Requirements**<br>LAUSD has developed these performance guidelines to minimize potential pedestrian safety risks to students, faculty and staff, and visitors at LAUSD schools. The performance guidelines include the requirements for: student drop-off areas, vehicle access, and pedestrian routes to school. Appendix C states school traffic studies shall identify measures to ensure separation between pedestrians and vehicles along potential pedestrian routes, such as sidewalks, crosswalks, bike paths, crossing guards, pedestrian and traffic signals, stop signs, warning signs, and other pedestrian access measures. | LAUSD OEHS CEQA Specification Manual, Appendix C, Traffic and Pedestrian Safety Requirements for New Schools. December 2005, Revised June 2007. | LAUSD OEHS | _____<br>Signature<br>Title:<br>Date: |
| ☐ | SC-PED-3 | Pedestrian Safety Analysis | Increase student capacity by more than 25% or 10 classrooms | During project design | **OEHS CEQA Specification Manual, Appendix D, Sidewalk Requirements for New Schools**<br>LAUSD shall coordinate with the responsible traffic jurisdiction/agency to ensure these areas are improved prior to the opening of a school. Improvements shall include, but are not limited to:<br>• Clearly designate passenger loading areas with the use of signage, painted curbs, etc.<br>• Install new walkway and/or sidewalk segments where none exist.<br>• Any substandard walkway/sidewalk segments shall be improved to a minimum of eight feet wide. | LAUSD OEHS CEQA Specification Manual, Appendix D, Sidewalk Requirements for New Schools. December 2005, Revised June 2007. | LAUSD OEHS | _____<br>Signature<br>Title:<br>Date: |

| Apply if Checked | Reference # | Topic | Trigger for Compliance | Implementation Phase | Standard Conditions | Original Source | Responsible Implementing Party | Signature of Responsible Party (OEHS) |
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| | | | | | • Provide other alternative measures that separate foot traffic from vehicular traffic, such as distinct travel pathways or barricades. | | | |
| ☐ | SC-PED-4 | Pedestrian Safety Analysis | Increase student capacity by more than 25% or 10 classrooms | Prior to project approval | **School Traffic Safety Reference Guide REF- 4492.1.** This Reference Guide replaces Reference Guide 4492.0, School Traffic Safety, September 30, 2008. Updated information is provided, including new guidance on passenger loading zones and the Safety Valet Program. Guide sets forth requirements for traffic and pedestrian safety, and procedures for school principals to request assistance from OEHS, the Los Angeles Schools Police Department (LASPD), or the local police department regarding traffic and pedestrian safety. Distribution and posting of the Back to School Safety Tips flyer is required. This guide also includes procedures for traffic surveys, parking restrictions, crosswalks, advance warning signs (school zone), school parking signage, traffic controls, crossing guards, or for determinations on whether vehicle enforcement is required to ensure the safety of students and staff. | LAUSD Traffic Safety Reference Guide. REF-4492.1. July 23, 2012 | LAUSD OEHS | _____ Signature Title: Date: |
| ☒ | SC-PED-5 | Safe Access to School | Construct bus loading area, student drop-off/pick-up area and/or parking | During project design (Planning) | **School Design Guide.** The Guide states student drop-off and pick-up, bus loading areas, and parking areas shall be separated to allow students to enter and exit the school grounds safely. | LAUSD School Design Guide. Los Angeles Unified School District. Current Version. | Design Builder | _____ Signature Title: Date: |
| ☐ | SC-T-3 | Traffic Analysis | Increase student capacity by more than 25% or 10 classrooms and/or generate additional traffic or shifts traffic patterns | Prior to project approval | Coordinate with the local City or County jurisdiction and agree on the following:<br>• Compliance with the jurisdiction's design guidelines for access, parking, and circulation in the vicinity of the project.<br>• Scope of analysis and methodology for the traffic and pedestrian study, including trip generation rates, trip distribution, number and location of intersections to be studied, and traffic impact thresholds.<br>• Implementation of SRTS, traffic control and pedestrian safety devices.<br>• Fair share contribution and/or other mitigation measures for potential traffic impacts.<br>• Traffic and pedestrian safety impact studies shall address local traffic and congestion during morning arrival times, and before and after evening stadium events.<br>• Traffic study will use the latest version of Institute of Transportation Engineer's (ITE) Trip Generation manual to determine trip | none | LAUSD OEHS | _____ Signature Title: Date: |

# Standard Conditions of Approval

| Apply if Checked | Reference # | Topic | Trigger for Compliance | Implementation Phase | Standard Conditions | Original Source | Responsible Implementing Party | Signature of Responsible Party (OEHS) |
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| | | | | | generation rates (parent vehicles, school buses, staff/faculty vehicles, and delivery vehicles) based on the size of the school facility and the specific school type (e.g., Magnet, Charter, etc.), unless otherwise required by local jurisdiction.<br>• Loading zones will be analyzed to determine the adequacy as pick-up and drop-off points. Recommendations will be developed in consultation with the local jurisdiction for curb loading bays or curb parking restrictions to accommodate loading needs and will control double parking and across-the-street loading. | | | |
| ☒ | SC-T-4 | Construction Traffic | Construction equipment to use public roadways | Prior to construction (Construction) | LAUSD shall require its contractors to submit a construction worksite traffic control plan to the LADOT for review prior to construction. The plan will show the location of any haul routes, hours of operation, protective devices, warning signs, and access to abutting properties LAUSD shall encourage its contractor to limit construction-related trucks to off-peak commute periods. As required by Caltrans, applicable transportation related safety measures shall be implemented during construction. | none | Design Builder | _____<br>Signature<br>Title:<br>Date: |
| **POPULATION and HOUSING** | | | | | | | | |
| ☐ | SC-PH-1 | Property Displacement | Residential or business property acquisition | Prior to construction | **Relocation Assistance Advisory Program**<br>LAUSD shall conform to all residential and business displacement guidelines presented in the LAUSD's Relocation Assistance Advisory Program which complies with all items identified in the California State Relocation Assistance and Real Property Acquisition Guidelines (California Code of Regulations Title 25, Division 1, Chapter 6). | LAUSD's Relocation Assistance Advisory Program | LAUSD Real Estate and Asset Management | _____<br>Signature<br>Title:<br>Date: |
| | **PUBLIC SERVICES** | | | | | | | |
| ☒ | SC-PS-1 | Emergency Protection Services | New building, new school, change in campus traffic circulation | Prior to construction (Planning & Construction) | LAUSD shall: 1) have local fire and police jurisdictions review all construction and site plans prior to the State Fire Marshall's final approval; and 2) provide a full site plan for the local review, including all buildings, both existing and proposed, fences, drive gates, retaining walls, and other construction affecting emergency vehicle access, with unobstructed fire lanes for access indicated. | LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR. | LAUSD OEHS and FSD and Design Builder | _____<br>Signature<br>Title:<br>Date: |
| ☒ | SC-PS-2 | Emergency Preparedness & Response | Practice on a standard schedule during school operation & during | During school operation (Post-Construction) | LAUSD shall implement emergency preparedness and response procedures in all schools as required in LAUSD References, Bulletins, Safety Notes, and Emergency Preparedness Plans. | • REF-5803.2 - Emergency Drills and Procedures, August 26, 2013<br>• SAF:30 - Emergency Response Protocol for | LAUSD, OEHS, FSD, M&O and Administration | _____<br>Signature<br>Title:<br>Date: |

| Apply if Checked | Reference # | Topic | Trigger for Compliance | Implementation Phase | Standard Conditions | Original Source | Responsible Implementing Party | Signature of Responsible Party (OEHS) |
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| | | | emergencies or disaster situations | | | LASUD Exiting Facilities, March 2, 2007<br>• Emergency Operations Plan, updated April 2010<br>• BUL-6084.0 - Use of School Facilities in an Emergency or Disaster Situation, June 11, 2013<br>• REF-5511.2 - Safe School Plans Update for 2013-2014, August 15, 2013<br>• BUL-5433.1 - District Emergency Response and Preparedness, March 8, 2013<br>• REF-5451.1 - School Site Emergency/Disaster Supplies, April 12, 2013<br>• REF 5741.0 - Emergency Response – Communications and Response Actions, April 23, 2012<br>• Other LAUSD Emergency Preparedness Plans include earthquakes, bio-terrorism, heavy rain and flooding, disturbances/demonstrations, school safety, West Nile virus precautions, procedures for reentry and cleanup of fire damaged building, disposal procedures for hazardous waste and universal waste. | | |

# Standard Conditions of Approval

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| | **TRANSPORTATION and TRAFFIC** | | | | | | | |
| ☐ | SC-T-1 | Traffic Analysis | Increase student capacity by more than 25% or 10 classrooms and additional traffic | Prior to project approval | **OEHS CEQA Specification Manual, Appendix C, Traffic and Pedestrian Safety Requirements for New Schools.** Requirements identifies performance requirements for the selection and design of school sites to minimize potential pedestrian safety risks:<br>• Site Selection<br>• Bus and Passenger Loading Areas<br>• Vehicle Access<br>• Pedestrian Routes to School<br>Requirements also state school traffic studies shall identify measures to ensure separation between pedestrians and vehicles along potential pedestrian routes, such as sidewalks, crosswalks, bike paths, crossing guards, pedestrian and traffic signals, stop signs, warning signs, and other pedestrian access measures. | LAUSD OEHS CEQA Specification Manual, Appendix C, Traffic and Pedestrian Safety Requirements for New Schools. December 2005, Revised June 2007. | LAUSD OEHS | _____<br>Signature<br>Title:<br>Date: |
| ☐ | SC-T-2 | Vehicular Access and Parking | Construction of parking, and/or vehicular or pedestrian access | During project design | **School Design Guide**.<br>Vehicular access and parking shall comply with Section 2.3, Vehicular Access and Parking of the School Design Guide, January 2014 (and/or Current Version). The Design Guide contains the following regulations related to traffic:<br>• Parking Space Requirements<br>• General Parking Guidelines<br>• Vehicular Access and Pedestrian Safety<br>• Parking Structure Security | School Design Guide. Los Angeles Unified School District. Current Version. | Design Builder | _____<br>Signature<br>Title:<br>Date: |
| ☐ | SC-T-3 | Traffic Analysis | Increase student capacity by more than 25% or 10 classrooms and/or generates additional traffic or shifts traffic patterns | Prior to project approval | Coordinate with the local City or County jurisdiction and agree on the following:<br>• Compliance with the jurisdiction's design guidelines for access, parking, and circulation in the vicinity of the project.<br>• Scope of analysis and methodology for the traffic and pedestrian study, including trip generation rates, trip distribution, number and location of intersections to be studied, and traffic impact thresholds.<br>• Implementation of SR2S, traffic control and pedestrian safety devices.<br>• Fair share contribution and/or other mitigation measures for potential traffic impacts. | none | LAUSD OEHS | _____<br>Signature<br>Title:<br>Date: |

| Apply if Checked | Reference # | Topic | Trigger for Compliance | Implementation Phase | Standard Conditions | Original Source | Responsible Implementing Party | Signature of Responsible Party (OEHS) |
|---|---|---|---|---|---|---|---|---|
| | | | | | • Traffic and pedestrian safety impact studies shall address local traffic and congestion during morning arrival times, and before and after evening stadium events.<br>• Traffic study will use the latest version of Institute of Transportation Engineer's (ITE) Trip Generation manual to determine trip generation rates (parent vehicles, school buses, staff/faculty vehicles, and delivery vehicles) based on the size of the school facility, unless otherwise required by local jurisdiction.<br>• Loading zones will be analyzed to determine the adequacy as pick-up and drop-off points. Recommendations will be developed in consultation with the local jurisdiction for curb loading bays or curb parking restrictions to accommodate loading needs and will control double parking and across-the-street loading. | | | |
| ☒ | SC-T-4 | Construction Traffic | Large construction equipment required to use public roadways | Prior to construction (Construction) | LAUSD shall require its contractors to submit a construction worksite traffic control plan to the local City or County jurisdiction for review prior to construction. The plan shall show the location of any haul routes, hours of operation, protective devices, warning signs, and access to abutting properties. LAUSD shall encourage its contractor to limit construction-related trucks to off-peak commute periods. As required by Caltrans, applicable transportation related safety measures shall be implemented during construction. | none | Design Builder | _____<br>Signature<br>Title:<br>Date: |
| ☐ | SC-AQ-5 | Traffic Reduction | Increase student capacity by more than 25% or 10 classrooms and additional traffic | During school operation | LAUSD shall encourage ride-sharing programs for students and teachers as well as maintain fleet vehicles such as school buses, maintenance vehicles, and other service fleet vehicles in good condition in order to prevent significant increases in air pollutant emissions created by operation of a new school. | LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR. | LAUSD OEHS and FSD and School Administration | _____<br>Signature<br>Title:<br>Date: |
| **TRIBAL CULTURAL RESOURCES** | | | | | | | | |
| ☒ | SC-TCR-1 | Native American Resource | Evidence of Native American resources is uncovered | During grading, excavation, or other ground-disturbing activities (Construction) | All work shall stop within a 30-foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist and the local Native American representative has been contacted and consulted to assist in the accurate recordation and recovery of the resources. | none | Design Builder | _____<br>Signature<br>Title:<br>Date: |
| **UTILITIES and SERVICE SYSTEMS** | | | | | | | | |

# Standard Conditions of Approval

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| ☒ | SC-USS-1 | Solid Waste (construction) | Generate construction and/or demolition debris | Prior to start and during construction (Construction) | **School Design Guide.**<br>Construction and demolition waste shall be recycled to the maximum extent feasible. LAUSD has established a minimum non-hazardous construction and demolition debris recycling requirement of 75% by weight as defined in Specification 01340, Construction & Demolition Waste Management.<br><br>**Guide Specifications 2004 - Section 01340, Construction & Demolition Waste Management.**<br>This section of the LAUSD Specifications includes procedures for preparation and implementation, including reporting and documentation, of a Waste Management Plan for reusing, recycling, salvage or disposal of non-hazardous waste materials generated during demolition and/or new construction (Construction & Demolition (C&D) Waste), to foster material recovery and re-use and to minimize disposal in landfills. Requires the collection and separation of all C&D waste materials generated on-site, reuse or recycling on-site, transportation to approved recyclers or reuse organizations, or transportation to legally designated landfills, for the purpose of recycling salvaging and/or reusing a minimum of 75% of the C&D waste generated. | • School Design Guide. Current Version;<br>• Specification 01340, Construction & Demolition Waste Management, July 7, 2003;<br>• LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR;<br>• The Collaborative for High Performance Schools. High Performance Schools Best Practices Manual, Volume III— Criteria. Version 1.0, November 1, 2001. Adopted by the Board of Education on October 28, 2003. Updated 2009 CHPS Scorecard with 2011 Amendments. Prerequisite. Construction Waste Management. ME2.0C.P1 and LAUSD 2014 School Design Guide. | Design Builder | _____<br>Signature<br>Title:<br>Date: |
| ☐ | SC-USS-2 | Water Supply | Excavation near water lines | During construction | LAUSD shall coordinate with the City of Los Angeles Department of Water and Power or other appropriate jurisdiction and department prior to the relocation or upgrade of any water facilities to reduce the potential for disruptions in service. | LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR. | LAUSD FSD and M&O | _____<br>Signature<br>Title:<br>Date: |

| Apply if Checked | Reference # | Topic | Trigger for Compliance | Implementation Phase | Standard Conditions | Original Source | Responsible Implementing Party | Signature of Responsible Party (OEHS) |
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| ☐ | SC-USS-3 | Solid Waste (operation) | New school or new school construction on existing campus | During operation | Provide easily accessible area serving the entire school that are dedicated to the collection and storage of materials for recycling including (at a minimum) paper, cardboard, glass, plastics, metals and landscaping waste. There shall be at least one centralized collection point (loading dock), and ability for separation of recyclables where waste is disposed of for classrooms and common areas such as cafeteria's, gyms or multi-purpose rooms. | The Collaborative for High Performance Schools. High Performance Schools Best Practices Manual, Volume III— Criteria. Version 1.0, November 1, 2001. Adopted by the Board of Education on October 28, 2003. Updated 2009 CHPS Scorecard with 2011 Amendments. Prerequisite. Storage and Collection of Recyclables. ME1.0.P2 | LAUSD OEHS and M&O | _____ Signature Title: Date: |
| ☒ | SC-GHG-1 | Water Use and Efficiency | Work on water pumps, valves, piping, and/or tanks | During school operation (Post-Construction) | During school operation, LAUSD shall perform regular preventative maintenance on pumps, valves, piping, and tanks to minimize water loss. | LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR | LAUSD M&O | _____ Signature Title: Date: |
| ☒ | SC-GHG-2 | Water Use and Efficiency | Requires work on landscape irrigation system | Prior to full operation of irrigation system (Post-Construction) | LAUSD shall utilize automatic sprinklers set to irrigate landscaping during the early morning hours to reduce water loss from evaporation. | LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR | LAUSD M&O | _____ Signature Title: Date: |
| ☒ | SC-GHG-3 | Water Use and Efficiency | Requires work on landscape irrigation system | Prior to full operation of irrigation system (Post-Construction) | LAUSD shall reset automatic sprinkler timers to water less during cooler months and rainy season. | LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR | LAUSD M&O | _____ Signature Title: Date: |
| ☒ | SC-GHG-4 | Water Use and Efficiency | Work on landscape and/or irrigation system. | Prior to full operation of irrigation system (Construction) | LAUSD shall develop a water budget for landscape (both non-recreational and recreational) and ornamental water use to conform to the local water efficient landscape ordinance. If no local ordinance is applicable, then use the landscape and ornamental budget outlined by the California Department of Water Resources. | The Collaborative for High Performance Schools. High Performance Schools Best Practices Manual, Vol. III— Criteria. Version 1.0, November 1, 2001. Adopted by the Board of Ed. on October 28, 2003. Updated 2009 CHPS Scorecard with 2011 | LAUSD M&O | _____ Signature Title: Date: |

# Standard Conditions of Approval

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| | | | | | | Amendments. Prerequisite. Construction Waste Management. WE1.0C.P1 and LAUSD 2014 School Design Guide. | | |
| ☒ | SC-GHG-5 | Energy Efficiency | Building construction | Prior to occupancy (Planning & Construction) | LAUSD shall ensure that the time dependent valued energy of the proposed project design is at least 10 percent, with a goal of 20 percent less than a standard design that is in minimum compliance with the California Title 24, Part 6 energy efficiency standards that are in force at the time the project is submitted to the Division of the State Architect. | The Collaborative for High Performance Schools. High Performance Schools Best Practices Manual, Volume III— Criteria. Version 1.0, November 1, 2001. Adopted by the Board of Education on October 28, 2003. Updated 2009 CHPS Scorecard with 2011 Amendments. Prerequisite. Energy Efficiency. EE1.0C.P1 and LAUSD 2014 School Design Guide. | Design Builder and LAUSD FSD and M&O | _____ Signature Title: Date: |

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# Appendix B
## Tree Inventory and Location

ESA

# TREE INVENTORY
# SAN PEDRO HIGH SCHOOL

| Tree # | Common Name | Botanical Name | Diameter at 4.5 feet (dbh) In inches | Height | Canopy Spread (N/E/S/W) | Age | Health | Structure | Disposition | Protected | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Olive | *Olea europaea* | 8 | 25 | 10/7/12/15 | Mature | B- | B | | No | moderate dieback, top dieback |
| 2 | Olive | *Olea europaea* | 3.5, 6.5, 6.5 | 20 | 10/12/12/9 | Semi-mature | C | B | | No | major dieback, top dead, epicormic |
| 3 | Victorian Box | *Pittosporum undulatum* | 12.5, 12.5 | 30 | 15/15/12/10 | Mature | F | F | | No | major dieback, almost dead, cracks, splitting |
| 4 | Carrotwood | *Ceratonia siliqua* | 9, 10, 11 | 30 | 15/17/15/11 | Mature | A | B | | No | codoms, multiple pruning events |
| 5 | Monterey Pine | *Pinus radiata* | 18.5 | 35 | 25/20/12/15 | Mature | B | B | | No | lean, gummossis, topped |
| 6 | Victorian Box | *Pittosporum undulatum* | 11, 16 | 30 | 15/8/12/12 | Mature | B- | B- | | No | bleeding, fungus at base, codominant stems |
| 7 | Victorian Box | *Pittosporum undulatum* | 10, 11.5 | 30 | 13/15/12/7 | Mature | F | F | | No | almost dead, cracks, splitting, fungus at base |
| 8 | Victorian Box | *Pittosporum undulatum* | 8, 11 | 25 | 13/6/12/15 | Mature | B- | D | | No | codoms, columns of decay, cavity SW, epicormic |
| 9 | Victorian Box | *Pittosporum undulatum* | 8, 9, 12.5 | 25 | 10/8/12/6 | Mature | C- | D | | No | codoms, columns of decay, tears, remove north trunk |
| 10 | Victorian Box | *Pittosporum undulatum* | 11, 12.5 | 30 | 10/8/12/8 | Mature | C | C- | | No | codoms, tears, fungus at base, cavity S, epicormic |
| 11 | Victorian Box | *Pittosporum undulatum* | 6, 7, 9, 10, 11 | 30 | 13/12/12/5 | Mature | C | C- | | No | codoms, mba, moderate dieback |
| 12 | Victorian Box | *Pittosporum undulatum* | 7, 10 | 30 | 10/10/10/10 | Mature | C- | D | | No | codoms, columns of decay, major dieback, epicormic, water pocket |
| 13 | Victorian Box | *Pittosporum undulatum* | 4, 4, 8, 9, 9, 12, 13 | 30 | 12/20/12/12 | Mature | C | C- | | No | cavity S, mba, moderate dieback |
| 14 | Chinese Elm | *Ulmus parvifolia* | 17.5 | 35 | 10/27/33/21 | Mature | B- | B- | | No | codoms, minor dieback, epicormic, mpe |
| 15 | Chinese Elm | *Ulmus parvifolia* | 17 | 30 | 15/6/22/30 | Mature | B- | B- | | No | codoms, one-sided W, lean W, epicormic, mpe |
| 16 | Bottle Tree | *Brachychiton populneus* | 3, 3.5, 4, 4, 6, 6 | 25 | 6/6/6/6 | Semi-mature | A | B | | No | multi-trunks, on both sides of fence |
| 17 | Victorian Box | *Pittosporum undulatum* | 4, 5.5, 7 | 25 | 7/6/10/11 | Mature | B- | B | | No | codoms, column of decay, mpe |
| 18 | Stone Pine | *Pinus pinea* | 18 | 30 | 22/25/20/12 | Mature | A | B | | No | codoms, slight lean E |
| 19 | Jacaranda | *Jacaranda mimosifolia* | 23.5 | 35 | 25/25/30/25 | Mature | A | B | | No | codoms, fused trunks, mpe, epicormic, mechanical damage E |
| 20 | Jacaranda | *Jacaranda mimosifolia* | 19 | 35 | 21/15/20/25 | Mature | A | B | | No | codoms, deadwood |
| 21 | Rubber Tree | *Ficus elastica* | 41 | 40 | 40/35/30/33 | Mature | A- | B | | No | mba, mpe, deadwood, water pocket |
| 22 | Monterey Pine | *Pinus radiata* | 14 | 40 | 6/9/16/18 | Mature | B | A | | No | minor gummossis, slight lean SW |
| 23 | Monterey Pine | *Pinus radiata* | 14 | 40 | 13/2/5/15 | Mature | C | B | | No | sparse, shaded out, deadwood, major dieback |
| 24 | Monterey Pine | *Pinus radiata* | 19 | 50 | 15/16/16/10 | Mature | B | B | | No | minor gummossis, deadwood |

# TREE INVENTORY
# SAN PEDRO HIGH SCHOOL

| Tree # | Common Name | Botanical Name | Diameter at 4.5 feet (dbh) In inches | Height | Canopy Spread (N/E/S/W) | Age | Health | Structure | Disposition | Protected | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | Monterey Pine | *Pinus radiata* | 12 | 35 | 10/8/12/12 | Mature | B | B | | No | shaded out, topped |
| 26 | Chinese Elm | *Ulmus parvifolia* | 18.5 | 30 | 20/18/24/24 | Mature | B- | B- | | No | anthracnose below codom, epicormic, deadwood |
| 27 | Monterey Pine | *Pinus radiata* | 16 | 40 | 6/15/20/12 | Mature | B | B | | No | minor gummossis |
| 28 | Monterey Pine | *Pinus radiata* | 12 | 40 | 10/13/6/7 | Mature | B- | B | | No | minor gummossis, deadwood |
| 29 | Monterey Pine | *Pinus radiata* | 8 | 40 | 8/20/6/10 | Semi-mature | B- | B- | | No | shaded out, bow in upper trunk, sparse |
| 30 | Chinese Elm | *Ulmus parvifolia* | 15 | 30 | 17/13/10/15 | Mature | C- | C | | No | shaded out, codoms, 1 codom dead, bark checking, cavity SE |
| 31 | Chinese Elm | *Ulmus parvifolia* | 19.5 | 40 | 25/18/22/22 | Mature | B | B | | No | codoms, exposed roots N, deadwood, mpe |
| 32 | Chinese Elm | *Ulmus parvifolia* | 17 | 40 | 25/20/28/15 | Mature | B | B | | No | shaded out, codoms, pockets of decay, epicormic |
| 33 | Incense Cedar | *Calocedrus decurrens* | 16.5 at 3' | 35 | 10/10/10/10 | Mature | A | A | | No | great tree |
| 34 | Incense Cedar | *Calocedrus decurrens* | 12.5 | 30 | 10/10/10/10 | Mature | A | A | | No | great tree |
| 35 | Carob | *Ceratonia siliqua* | 34.5 | 30 | 27/18/15/21 | Mature | B- | C | | No | termites, mpe, sidewalk damage, leans W, codoms, decay, epicormic, |
| 36 | Carob | *Ceratonia siliqua* | 48 | 30 | 15/12/24/22 | Mature | B- | C- | | No | seams, mba, mpe, codoms, conk, sidewalk damage, epicormic, hollow, |
| 37 | Carob | *Ceratonia siliqua* | 37.5 | 35 | 16/24/25/15 | Mature | C | C- | | No | bark checking, pockets of decay, bleeding, mba, deadwood, unbalanced |
| 38 | Carob | *Ceratonia siliqua* | 43 | 30 | 12/13/19/15 | Mature | C | D | | No | epicormic, conk, large cavities, sidewalk damage |
| 39 | Jacaranda | *Jacaranda mimosifolia* | 20 | 30 | 20/15/18/18 | Mature | B | B- | | No | topped, mechanical damage W, mba, codoms, seams, no bark on lower trunk |
| 40 | Chinese Elm | *Ulmus parvifolia* | 18 | 30 | 20/20/23/25 | Mature | B- | B | | No | codoms, bleeding, deadwood, overextended limbs |
| 41 | Chinese Elm | *Ulmus parvifolia* | 18 at 4' | 30 | 20/20/16/15 | Mature | B- | B | | No | codoms, mba, epicormic, cavity S, overextended limbs |
| 42 | Chinese Elm | *Ulmus parvifolia* | 18 | 35 | 20/20/20/25 | Mature | B | B | | No | codoms, mba, epicormic, deadwood |
| 43 | Chinese Elm | *Ulmus parvifolia* | 16 | 30 | 25/10/12/25 | Mature | B- | C | | No | heavy bow in trunk, unbalanced, minor dieback |
| 44 | Chinese Elm | *Ulmus parvifolia* | 17 | 30 | 15/20/15/20 | Mature | B | B | | No | codoms, girdling root, epicormic |
| 45 | Chinese Elm | *Ulmus parvifolia* | 16.5 | 30 | 18/20/20/20 | Mature | B- | B- | | No | codoms, deadwood, trunk lean S, epicormic |
| 46 | Chinese Elm | *Ulmus parvifolia* | 17.5 | 30 | 20/15/15/20 | Mature | B | B | | No | minor dieback, epicormic |
| 47 | Chinese Elm | *Ulmus parvifolia* | 15 | 30 | 18/15/20/25 | Mature | B- | B- | | No | deadwood, mba, bows in trunk, epicormic |
| 48 | Chinese Elm | *Ulmus parvifolia* | 18 | 30 | 18/15/20/25 | Mature | B | B | | No | codoms, trunk bow NW, epicormic, girdling root |

# TREE INVENTORY
# SAN PEDRO HIGH SCHOOL

| Tree # | Common Name | Botanical Name | Diameter at 4.5 feet (dbh) In inches | Height | Canopy Spread (N/E/S/W) | Age | Health | Structure | Disposition | Protected | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 49 | Chinese Elm | *Ulmus parvifolia* | 18 | 30 | 15/15/27/22 | Mature | B- | B- | | No | codoms, epicormic, deadwood |
| 50 | Blue Atlas Cedar | *Cedrus atlantica* 'Glauca' | 36.5 | 45 | 32/21/30/30 | Over-Mature | B- | A | | No | deadwood, codom, lion-tailed |
| 51 | Canary Island Pine | *Pinus canariensis* | 12 | 40 | 12/10/6/6 | Semi-mature | A | A- | | No | codoms, previously topped |
| 52 | Canary Island Pine | *Pinus canariensis* | 22 | 60 | 15/10/10/13 | Mature | A | A- | | No | codoms, previously topped |
| 53 | Canary Island Pine | *Pinus canariensis* | 27 | 65 | 15/20/20/2 | Mature | A | A- | | No | codoms, previously topped |
| 54 | Canary Island Pine | *Pinus canariensis* | 26 | 60 | 2/15/22/12 | Mature | A | A- | | No | codoms, previously topped |
| 55 | Blue Atlas Cedar | *Cedrus atlantica 'Glauca'* | 36 | 40 | 30/25/25/33 | Mature | A | A | | No | lion-tailed |
| 56 | Canary Island Pine | *Pinus canariensis* | 22 | 75 | 12/20/12/7 | Mature | A | B | | No | topped, codoms |
| 57 | Canary Island Pine | *Pinus canariensis* | 18 | 50 | 20/1815/7 | Mature | A | B | | No | topped, codoms |
| 58 | Canary Island Pine | *Pinus canariensis* | 24 | 58 | 7/15/24/15 | Mature | A | A- | | No | topped, codoms |
| 59 | Lemonwood | *Pittosporum eugenioides* | 9 | 25 | 0/5/7/12 | Senescent | C | C- | | No | trunk scars, base decay, only top growth |
| 60 | Lemonwood | *Pittosporum eugenioides* | 11, 11 | 30 | 15/15/12/15 | Senescent | C | C | | No | dieback, cavity decay at base |
| 61 | Brazilian Pepper | *Schinus terebinthifolius* | 36 | 25 | 20/20/20/0 | Over-Mature | B | C | | No | overprown old tree, mba |
| 62 | Carrotwood | *Cupaniopsis anacardioides* | 12 at 2' | 25 | 10/12/15/15 | Semi-mature | A | B | | No | mba, mpe, deadwood, water pocket |
| 63 | Brazilian Pepper | *Schinus terebinthifolius* | 31.5 | 30 | 20/20/15/15 | Over-Mature | B | C- | | No | overmature, scars, cavities |
| 64 | Brazilian Pepper | *Schinus terebinthifolius* | 18.5 | 30 | 8/15/15/10 | Over-Mature | B | C- | | No | overmature, scars, cavities |
| 65 | Brazilian Pepper | *Schinus terebinthifolius* | 25.5 | 30 | 15/16/13/16 | Over-Mature | C- | C | | No | overmature, scars, cavities |
| 66 | Brazilian Pepper | *Schinus terebinthifolius* | 10 | 12 | 8/10/7/7 | Mature | B- | C- | | No | overmature, scars, cavities |
| 67 | Brazilian Pepper | *Schinus terebinthifolius* | 14.5 | 22 | 10/7/6/10 | Senescent | C | C | | No | hollow, major dieback |
| 68 | Brazilian Pepper | *Schinus terebinthifolius* | 23 | 30 | 15/15/15/12 | Over-Mature | B | B | | No | overmature, good shape |
| 69 | California Pepper | *Schinus molle* | 22, 40 | 45 | 25/30/21/20 | Over-Mature | A- | B | | No | epicormic, well maintained |
| 70 | Spanish Dagger | *Yucca gloriosa* | 6, 10, 12, 14 | 20 | 6/5/4/10 | Over-Mature | A- | B | | No | needs cleaning |
| 71 | Victorian Box | *Pittosporum undulatum* | 10 | 25 | 12/18/14/9 | Mature | B | B | | No | crowded |
| 72 | Queensland Pittosporum | *Pittosporum rhombifolium* | 12 | 25 | 11/12/3/2 | Mature | B | B- | | No | topped, no room to grow |

# TREE INVENTORY
# SAN PEDRO HIGH SCHOOL

| Tree # | Common Name | Botanical Name | Diameter at 4.5 feet (dbh) In inches | Height | Canopy Spread (N/E/S/W) | Age | Health | Structure | Disposition | Protected | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 73 | Spanish Dagger | *Yucca gloriosa* | 5, 8, 9, 10, 10, 11, 12 | 22 | 10/4/8/8 | Over-Mature | B | B | | No | |
| 74 | Spanish Dagger | *Yucca gloriosa* | 4, 4, 5, 10, 10, 10 | 25 | 6/12/6/5 | Over-Mature | B | B | | No | |
| 75 | California Pepper | *Schinus molle* | 13.5 | 35 | 10/10/15/20 | Semi-mature | A | A | | No | |
| 76 | Cork Oak | *Quercus suber* | 32 | 40 | 24/20/24/27 | Mature | B | B | | No | sparse, canker on W of trunk |
| 77 | Monterey Pine | *Pinus radiata* | 19 | 50 | 27/12/10/22 | Mature | C+ | B | | No | yellowing |
| 78 | Aleppo Pine | *Pinus halepensis* | 26 | 60 | 15/25/27/27 | Mature | A | B- | | No | lean, topped |
| 79 | Monterey Pine | *Pinus radiata* | 16.5 | 30 | 5/10/13/20 | Mature | B- | C | | No | yellowing needles, 80% loss |
| 80 | Aleppo Pine | *Pinus halepensis* | 26 | 60 | 18/30/24/28 | Mature | B | B | | No | yellowing needles |
| 81 | Shamel Ash | *Fraxinus uhdei* | 12.5 | 30 | 15/6/16/18 | Semi-mature | C | B | | No | drought stress |
| 82 | Chinese Elm | *Ulmus parvifolia* | 2, 4 | 12 | 4/4/8/6 | Semi-mature | C | C | | No | drought stress, stripped bark |
| 83 | Monterey Pine | *Pinus radiata* | 12 | 30 | 15/15/15/15 | Semi-mature | A | A | | No | great tree |
| 84 | Monterey Pine | *Pinus radiata* | 15.5 | 35 | 8/15/12/12 | Mature | B | A | | No | drought stress |
| 85 | Indian Laurel Fig | *Ficus microcarpa* | 31 | 40 | 28/30/30/25 | Mature | A | A | | No | topped, vigorous growth |
| 86 | Indian Laurel Fig | *Ficus microcarpa* | 34 at 1' | 40 | 28/30/30/28 | Mature | A | A | | No | topped, vigorous growth |
| 87 | Indian Laurel Fig | *Ficus microcarpa* | 31 | 40 | 28/30/30/28 | Mature | A | A | | No | topped, vigorous growth |
| 88 | Indian Laurel Fig | *Ficus microcarpa* | 29 | 40 | 28/30/30/28 | Mature | A | A | | No | topped, vigorous growth |
| 89 | Shamel Ash | *Fraxinus uhdei* | 27.5 | 55 | 20/15/15/18 | Mature | B- | B- | | No | ganoderma in root structure, topped |
| 90 | Canary Island Pine | *Pinus canariensis* | 2 | 50 | 15/15/15/15 | Mature | B | B- | | No | topped, slight lean E, heavy crown |
| 91 | Indian Laurel Fig | *Ficus microcarpa* | 36 | 40 | 30/30/30/13 | Mature | A | B | | No | unbalanced |
| 92 | Mexican Fan Palm | *Washingtonia robusta* | BT 40 | 45 | 6/6/6/6 | Semi-mature | A | A | | No | |
| 93 | Mexican Fan Palm | *Washingtonia robusta* | BT 45 | 50 | 6/6/6/6 | Semi-mature | A | A | | No | |
| 94 | Mexican Fan Palm | *Washingtonia robusta* | BT 40 | 45 | 6/6/6/6 | Semi-mature | A | A | | No | |
| 95 | Mexican Fan Palm | *Washingtonia robusta* | BT 50 | 55 | 6/6/6/6 | Semi-mature | A | A | | No | |
| 96 | Aleppo Pine | *Pinus halepensis* | 18.5 | 35 | 6/10/15/10 | Mature | B | C+ | | No | topped, trunk removed |

# TREE INVENTORY
# SAN PEDRO HIGH SCHOOL

| Tree # | Common Name | Botanical Name | Diameter at 4.5 feet (dbh) In inches | Height | Canopy Spread (N/E/S/W) | Age | Health | Structure | Disposition | Protected | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 97 | Queen Palm | *Syagrus romanzoffiana* | BT 40 | 50 | 10/10/10/10 | Mature | A | A | | No | nice specimen |
| 98 | Mexican Fan Palm | *Washingtonia robusta* | BT 55 | 60 | 6/6/6/6 | Mature | A | A | | No | |
| 99 | Mexican Fan Palm | *Washingtonia robusta* | BT 57 | 63 | 6/6/6/6 | Mature | A | A | | No | |
| 100 | Mexican Fan Palm | *Washingtonia robusta* | BT 50 | 60 | 6/6/6/6 | Mature | A | A | | No | |
| 101 | Jacaranda | *Jacaranda mimosifolia* | 29 | 50 | 20/30/28/20 | Mature | B | C+ | | No | topped, exposed roots, small crown cavities, big cuts |
| 102 | Jacaranda | *Jacaranda mimosifolia* | 25.5 | 40 | 27/22/25/28 | Mature | B | C+ | | No | topped, history of breakage |
| 103 | Chinese Elm | *Ulmus parvifolia* | 23 | 35 | 20/5/15/25 | Mature | C | C- | | No | large cuts, all epicormic |
| 104 | Chinese Elm | *Ulmus parvifolia* | 26.5 | 50 | 35/21/21/30 | Mature | C | C+ | | No | girdling roots, epicormic, large tears |
| 105 | Canary Island Pine | *Pinus canariensis* | 16 | 50 | 10/10/10/10 | Semi-mature | A | A | | No | great tree |
| 106 | Canary Island Pine | *Pinus canariensis* | 15.5 | 50 | 10/10/10/10 | Semi-mature | A | A | | No | great tree |
| 107 | Canary Island Pine | *Pinus canariensis* | 16 | 50 | 10/10/10/10 | Semi-mature | A | A | | No | great tree |
| 108 | Coral Tree | *Erythrina falcata* | 9, 11, 11 | 18 | 10/10/10/10 | Semi-mature | B | B- | | No | two trunks choked with metal wire |
| 109 | Canary Island Pine | *Pinus canariensis* | 15.5 | 30 | 15/15/15/15 | Semi-mature | A- | B- | | No | topped at 10'ft |
| 110 | Coral Tree | *Erythrina falcata* | 6, 7 | 17 | 10/10/10/10 | Semi-mature | A- | B- | | No | scars from injuries |
| 111 | Mexican Fan Palm | *Washingtonia robusta* | BT 40 | 50 | 5/5/5/5 | Semi-mature | A | A | | No | behind fence, not tagged |
| 112 | Mexican Fan Palm | *Washingtonia robusta* | BT 40 | 50 | 5/5/5/5 | Semi-mature | A | A | | No | difficult access |
| 113 | Mexican Fan Palm | *Washingtonia robusta* | BT 30 | 40 | 6/6/6/6 | Semi-mature | A | A | | No | |
| 114 | Mexican Fan Palm | *Washingtonia robusta* | BT 35 | 45 | 6/6/6/6 | Semi-mature | A | A | | No | |
| 115 | Mexican Fan Palm | *Washingtonia robusta* | BT 35 | 45 | 6/6/6/6 | Semi-mature | A | A | | No | |
| 116 | Mexican Fan Palm | *Washingtonia robusta* | BT 25 | 35 | 6/6/6/6 | Semi-mature | A | A | | No | |
| 117 | Mexican Fan Palm | *Washingtonia robusta* | BT 25 | 35 | 6/6/6/6 | Semi-mature | A | A | | No | |
| 118 | Carrotwood | *Cupaniopsis anacardioides* | 14 | 22 | 12/12/12/12 | Mature | B- | B- | | No | scarred trunk and branches |
| 119 | Carrotwood | *Cupaniopsis anacardioides* | 21 | 30 | 20/20/20/20 | Mature | B- | B- | | No | scarred trunk and branches |
| 120 | Victorian Box | *Pittosporum undulatum* | 14.5 | 25 | 12/12/12/12 | Over-Mature | C | C+ | | No | mechanical damage to trunk base |

# TREE INVENTORY
# SAN PEDRO HIGH SCHOOL

| Tree # | Common Name | Botanical Name | Diameter at 4.5 feet (dbh) In inches | Height | Canopy Spread (N/E/S/W) | Age | Health | Structure | Disposition | Protected | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 121 | Carrotwood | *Cupaniopsis anacardioides* | 16.5 | 30 | 15/15/15/15 | Mature | B | B | | No | mechanical damage to trunk base |
| 122 | Floss Silk Tree | *Chorisia speciosa* | 31 | 40 | 27/27/27/27 | Mature | B | A | | No | decay at old cuts |
| 123 | Bottle Tree | *Brachychiton populneus* | 23 at 3' | 25 | 15/15/15/15 | Semi-mature | A | B | | No | old pruning cuts |
| 124 | Floss Silk Tree | *Chorisia speciosa* | 31.5 | 35 | 20/20/20/20 | Mature | A- | B | | No | trunks fused at 8'ft |
| 125 | Monterey Pine | *Pinus radiata* | 25 at 4' | 25 | 15/15/15/15 | Semi-mature | A | A- | | No | stub cuts, leans E, hardscape around 75% |
| 126 | Bottle Tree | *Brachychiton populneus* | 23.5 | 25 | 15/15/15/15 | Semi-mature | A | A- | | No | hardscape around 75% |
| 127 | Lemon Scented Gum | *Corymbia citriodora* | 14 | 45 | 17/17/17/17 | Semi-mature | B+ | A- | | No | minor dieback over powerline |
| 128 | Lemon Scented Gum | *Corymbia citriodora* | 10 | 45 | 15/15/12/12 | Semi-mature | A | A | | No | over powerline |
| 129 | Lemon Scented Gum | *Corymbia citriodora* | 10 | 35 | 10/10/12/12 | Semi-mature | A | A | | No | bows W slightly |
| 130 | Lemon Scented Gum | *Corymbia citriodora* | 9.5 | 40 | 2/15/12/12 | Semi-mature | B- | B | | No | minor dieback, exposed roots, small leaves |
| 131 | Brazilian Pepper | *Schinus terebinthifolius* | 28 | 30 | 15/18/15/15 | Mature | B | C | | No | history of breakage, large tear, mpe, minor dieback, no interior canopy |
| 132 | Chinese Elm | *Ulmus parvifolia* | 22 | 35 | 33/12/25/23 | Mature | C | C | | No | large codoms, moderate dieback, cavity on W, decay at old cuts, epicormic |
| 133 | Chinese Elm | *Ulmus parvifolia* | 24.5 | 45 | 30/30/25/30 | Mature | B- | B- | | No | epicormic, codoms, moderate dieback, decay at old cuts |
| 134 | Chinese Elm | *Ulmus parvifolia* | 20.5 | 45 | 28/12/22/30 | Mature | B | B- | | No | decay at old cuts, codoms, epicormic |
| 135 | Victorian Box | *Pittosporum undulatum* | 16 | 45 | 15/18/17/3 | Mature | A | C | | No | exposed roots with decay, mpe, slight lean E, unbalanced |
| 136 | Queensland Pittosporum | *Pittosporum rhombifolium* | 10 | 25 | 10/8/8/7 | Semi-mature | A | B | | No | unbalanced to N |
| 137 | Indian Laurel Fig | *Ficus microcarpa* | 36.5 | 35 | 33/27/15/27 | Mature | A | A | | No | SW and W uplift |
| 138 | Indian Laurel Fig | *Ficus microcarpa* | 31.5 | 35 | 12/20/18/27 | Mature | A | A | | No | |
| 139 | Indian Laurel Fig | *Ficus microcarpa* | 30 | 35 | 25/20/30/27 | Mature | A | A | | No | raised, possible root pruning, |
| 140 | Indian Laurel Fig | *Ficus microcarpa* | 27 | 50 | 30/12/27/15 | Mature | A | B+ | | No | tear on SW, raised |
| 141 | Indian Laurel Fig | *Ficus microcarpa* | 28 | 50 | 30/12/27/15 | Mature | A | B+ | | No | raised, minor decay at old cuts |
| 142 | Indian Laurel Fig | *Ficus microcarpa* | 25 | 50 | 30/12/27/15 | Mature | A | B+ | | No | possible root pruning on S (sidewalk) |
| 143 | Indian Laurel Fig | *Ficus microcarpa* | 27 | 50 | 30/12/27/15 | Mature | A | B+ | | No | possible root pruning on S (sidewalk) |
| 144 | Indian Laurel Fig | *Ficus microcarpa* | 29 | 50 | 30/12/27/15 | Mature | A | B+ | | No | possible root pruning on S (sidewalk) |

# TREE INVENTORY
# SAN PEDRO HIGH SCHOOL

| Tree # | Common Name | Botanical Name | Diameter at 4.5 feet (dbh) In inches | Height | Canopy Spread (N/E/S/W) | Age | Health | Structure | Disposition | Protected | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 145 | Indian Laurel Fig | *Ficus microcarpa* | 27 | 50 | 30/12/27/15 | Mature | A | B+ | | No | possible root pruning on S (sidewalk) |
| 146 | Indian Laurel Fig | *Ficus microcarpa* | 29 at 3.5' | 50 | 30/12/27/15 | Mature | A | B+ | | No | possible root pruning on S (sidewalk), root decay to S |
| 147 | Indian Laurel Fig | *Ficus microcarpa* | 25.5 | 50 | 30/12/27/15 | Mature | A | B+ | | No | possible root pruning on S (sidewalk), no root flare to W |
| 148 | Indian Laurel Fig | *Ficus microcarpa* | 32 | 50 | 30/12/27/15 | Mature | A | B+ | | No | possible root pruning on S (sidewalk), no root flare to N |
| 149 | Indian Laurel Fig | *Ficus microcarpa* | 31.5 | 50 | 30/12/27/15 | Mature | A | B+ | | No | possible root pruning on S (sidewalk) |

Carlberg ASSOCIATES
Horticulturists and Registered Consulting ARBORISTS

# TREE LOCATION EXHIBIT

**SAN PEDRO HIGH SCHOOL**
**1001 W. 15TH STREET, SAN PEDRO, CALIFORNIA 90031**
**PREPARED FOR: LPA, INC., 5161 CALIFORNIA AVENUE, SUITE 100, IRVINE, CA 92617**

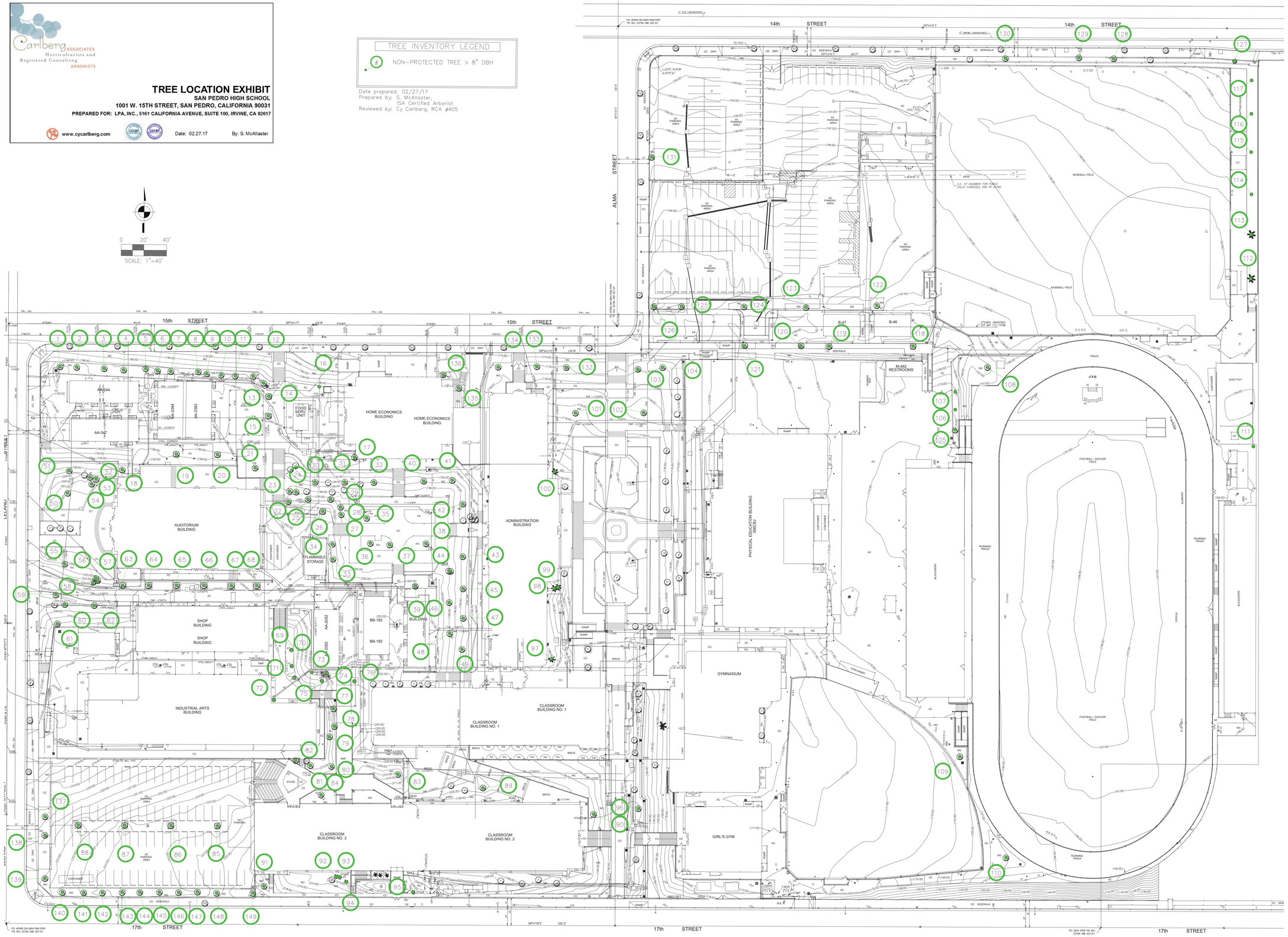
www.cycarlberg.com Date: 02.27.17 By: S. McAllaster

## TREE INVENTORY LEGEND

(#) NON-PROTECTED TREE > 8" DBH

Date prepared: 02/27/17
Prepared by: S. McAllaster,
ISA Certified Arborist
Reviewed by: Cy Carlberg, RCA #405

0 20' 40'
SCALE: 1"=40'



# Appendix C
## CDFW California Natural Diversity Database

ESA

# Selected Elements by Common Name

## California Department of Fish and Wildlife

## California Natural Diversity Database

**Query Criteria:** Quad IS (San Pedro (3311863) OR Redondo Beach (3311874) OR Torrance (3311873) OR Long Beach (3311872))

| Species | Element Code | Federal Status | State Status | Global Rank | State Rank | Rare Plant Rank/CDFW SSC or FP |
|---|---|---|---|---|---|---|
| **aphanisma**<br>*Aphanisma blitoides* | PDCHE02010 | None | None | G3G4 | S2 | 1B.2 |
| **bank swallow**<br>*Riparia riparia* | ABPAU08010 | None | Threatened | G5 | S2 | |
| **beach spectaclepod**<br>*Dithyrea maritima* | PDBRA10020 | None | Threatened | G1 | S1 | 1B.1 |
| **big free-tailed bat**<br>*Nyctinomops macrotis* | AMACD04020 | None | None | G5 | S3 | SSC |
| **Brand's star phacelia**<br>*Phacelia stellaris* | PDHYD0C510 | None | None | G1 | S1 | 1B.1 |
| **California brown pelican**<br>*Pelecanus occidentalis californicus* | ABNFC01021 | Delisted | Delisted | G4T3 | S3 | FP |
| **California least tern**<br>*Sternula antillarum browni* | ABNNM08103 | Endangered | Endangered | G4T2T3Q | S2 | FP |
| **California Orcutt grass**<br>*Orcuttia californica* | PMPOA4G010 | Endangered | Endangered | G1 | S1 | 1B.1 |
| **Catalina crossosoma**<br>*Crossosoma californicum* | PDCRO02020 | None | None | G3 | S3 | 1B.2 |
| **coast horned lizard**<br>*Phrynosoma blainvillii* | ARACF12100 | None | None | G3G4 | S3S4 | SSC |
| **coast woolly-heads**<br>*Nemacaulis denudata var. denudata* | PDPGN0G011 | None | None | G3G4T2 | S2 | 1B.2 |
| **coastal California gnatcatcher**<br>*Polioptila californica californica* | ABPBJ08081 | Threatened | None | G4G5T2Q | S2 | SSC |
| **Coulter's goldfields**<br>*Lasthenia glabrata ssp. coulteri* | PDAST5L0A1 | None | None | G4T2 | S2 | 1B.1 |
| **Coulter's saltbush**<br>*Atriplex coulteri* | PDCHE040E0 | None | None | G3 | S1S2 | 1B.2 |
| **Crotch bumble bee**<br>*Bombus crotchii* | IIHYM24480 | None | None | G3G4 | S1S2 | |
| **Davidson's saltscale**<br>*Atriplex serenana var. davidsonii* | PDCHE041T1 | None | None | G5T1 | S1 | 1B.2 |
| **decumbent goldenbush**<br>*Isocoma menziesii var. decumbens* | PDAST57091 | None | None | G3G5T2T3 | S2 | 1B.2 |
| **El Segundo blue butterfly**<br>*Euphilotes battoides allyni* | IILEPG201B | Endangered | None | G5T1 | S1 | |
| **El Segundo flower-loving fly**<br>*Rhaphiomidas terminatus terminatus* | IIDIP05022 | None | None | G1T1 | S1 | |

| Species | Element Code | Federal Status | State Status | Global Rank | State Rank | Rare Plant Rank/CDFW SSC or FP |
|---|---|---|---|---|---|---|
| **estuary seablite**<br>*Suaeda esteroa* | PDCHE0P0D0 | None | None | G3 | S2 | 1B.2 |
| **island green dudleya**<br>*Dudleya virens ssp. insularis* | PDCRA040S2 | None | None | G3?T3 | S3 | 1B.2 |
| **Lyon's pentachaeta**<br>*Pentachaeta lyonii* | PDAST6X060 | Endangered | Endangered | G1 | S1 | 1B.1 |
| **mesa horkelia**<br>*Horkelia cuneata var. puberula* | PDROS0W045 | None | None | G4T1 | S1 | 1B.1 |
| **mimic tryonia (=California brackishwater snail)**<br>*Tryonia imitator* | IMGASJ7040 | None | None | G2 | S2 | |
| **Mohave tui chub**<br>*Siphateles bicolor mohavensis* | AFCJB1303H | Endangered | Endangered | G4T1 | S1 | FP |
| **monarch - California overwintering population**<br>*Danaus plexippus pop. 1* | IILEPP2012 | None | None | G4T2T3 | S2S3 | |
| **mud nama**<br>*Nama stenocarpa* | PDHYD0A0H0 | None | None | G4G5 | S1S2 | 2B.2 |
| **Pacific pocket mouse**<br>*Perognathus longimembris pacificus* | AMAFD01042 | Endangered | None | G5T1 | S1 | SSC |
| **Palos Verdes blue butterfly**<br>*Glaucopsyche lygdamus palosverdesensis* | IILEPG402A | Endangered | None | G5T1 | S1 | |
| **Parish's brittlescale**<br>*Atriplex parishii* | PDCHE041D0 | None | None | G1G2 | S1 | 1B.1 |
| **pocketed free-tailed bat**<br>*Nyctinomops femorosaccus* | AMACD04010 | None | None | G4 | S3 | SSC |
| **prostrate vernal pool navarretia**<br>*Navarretia prostrata* | PDPLM0C0Q0 | None | None | G2 | S2 | 1B.1 |
| **Riverside fairy shrimp**<br>*Streptocephalus woottoni* | ICBRA07010 | Endangered | None | G1G2 | S1S2 | |
| **salt marsh bird's-beak**<br>*Chloropyron maritimum ssp. maritimum* | PDSCR0J0C2 | Endangered | Endangered | G4?T1 | S1 | 1B.2 |
| **San Bernardino aster**<br>*Symphyotrichum defoliatum* | PDASTE80C0 | None | None | G2 | S2 | 1B.2 |
| **San Diego desert woodrat**<br>*Neotoma lepida intermedia* | AMAFF08041 | None | None | G5T3T4 | S3S4 | SSC |
| **sandy beach tiger beetle**<br>*Cicindela hirticollis gravida* | IICOL02101 | None | None | G5T2 | S2 | |
| **Santa Catalina Island desert-thorn**<br>*Lycium brevipes var. hassei* | PDSOL0G0N0 | None | None | G5T1Q | S1 | 3.1 |
| **silver-haired bat**<br>*Lasionycteris noctivagans* | AMACC02010 | None | None | G5 | S3S4 | |
| **south coast saltscale**<br>*Atriplex pacifica* | PDCHE041C0 | None | None | G4 | S2 | 1B.2 |

| Species | Element Code | Federal Status | State Status | Global Rank | State Rank | Rare Plant Rank/CDFW SSC or FP |
|---|---|---|---|---|---|---|
| **southern California legless lizard**<br>*Anniella stebbinsi* | ARACC01060 | None | None | G3 | S3 | SSC |
| **Southern Coastal Bluff Scrub**<br>*Southern Coastal Bluff Scrub* | CTT31200CA | None | None | G1 | S1.1 | |
| **southern tarplant**<br>*Centromadia parryi ssp. australis* | PDAST4R0P4 | None | None | G3T2 | S2 | 1B.1 |
| **tricolored blackbird**<br>*Agelaius tricolor* | ABPBXB0020 | None | Candidate Endangered | G2G3 | S1S2 | SSC |
| **western beach tiger beetle**<br>*Cicindela latesignata latesignata* | IICOL02113 | None | None | G2G4T1T2 | S1 | |
| **western tidal-flat tiger beetle**<br>*Cicindela gabbii* | IICOL02080 | None | None | G2G4 | S1 | |
| **western yellow-billed cuckoo**<br>*Coccyzus americanus occidentalis* | ABNRB02022 | Threatened | Endangered | G5T2T3 | S1 | |

**Record Count: 47**

# Appendix D

## Comprehensive Geotechnical Report

ESA

GROUP DELTA

# Comprehensive Geotechnical Report
# Campus Modernization and Retrofit
# San Pedro High School
# 1001 West 15th Street
# San Pedro, California

**Los Angeles Unified School District**
**Design & A/E Technical Support Department**
**333 South Beaudry Avenue, 23rd Floor**
**Los Angeles, CA 90017**

**November 4, 2016**
**GDC Project No. LA-1244A**

GROUP DELTA

Los Angeles Unified School District
Design & A/E Technical Support Department
333 South Beaudry Avenue, 23rd Floor
Los Angeles, CA 90017

November 4, 2016
LA-1244A

Attention: Mr. Peyman Moghadam
Supervising Structural Engineer

Subject: Comprehensive Geotechnical Report
Campus Modernization and Retrofit
San Pedro High School
1001 West 15th Street, San Pedro, California

Dear Mr. Moghadam,

**Group Delta Consultants, Inc. (GDC)** is pleased to submit our Comprehensive Geotechnical Report for the campus modernization and retrofit project at San Pedro High School (SPHS).

We appreciate the opportunity to provide geotechnical and geological services for this project. If you have any questions pertaining to this report, or if we can be of further service, please do not hesitate to contact us.

Sincerely, Group Delta Consultants

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# COMPREHENSIVE GEOTECHNICAL REPORT
# Campus Modernization and Retrofit
# San Pedro High School
# 1001 West 15th Street, San Pedro, California

## 1.0 INTRODUCTION

### 1.1 General

This Comprehensive Geotechnical Report has been prepared for the proposed Modernization and Retrofit Project planned at the San Pedro High School (SPHS) campus. The general location of the school campus and approximate locations for the campus improvements, including buildings to be demolished and buildings to be modernized/retrofit, are shown on the Project Site and Vicinity Map in Figure 1.

### 1.2 Project Description

At this time the improvement plans are conceptual; Architectural and Structural details and Structural loads are not available. We understand that three conceptual designs have been proposed and, conceptually, the planned project includes:

- The existing Shop Building, Industrial Arts Building, Lunch Shelter, portable units at the northwest area of the site, and small units at the center of the site, will be demolished.
- Construction of a new Admin/Classroom Building to be located in the southwest area of the site.
- A new proposed Band/Arts Building built in the northwest area of the site, with an alternate location at the northeast area of the site, west of the baseball field.
- A new Lunch Shelter located in the northwest part of campus, with the final location to be determined.
- Modernization and retrofit of the existing Admin/CR Building #1, Food Service/CR Building, and Gym. We understand that geotechnical recommendations are needed, as necessary, for the design of their modernization.

## 1.3 Scope of Work

Our scope of work included the following:

- Review of available published geologic and geotechnical reports, and geologic publications and maps pertaining to the site and surrounding area.
- Drilling of 15 borings to depths ranging from approximately 11.5 to 26.5 feet below existing grade, to investigate the subsurface conditions at the planned locations for the improvements. Borings were advanced at least 10 feet into bedrock.
- Performance of laboratory tests to define the subsurface profile and to evaluate the physical properties and engineering characteristics of the soils encountered.
- Engineering analyses of the field and laboratory data to develop geotechnical recommendations for site preparation and foundation support and support of hardscape.
- Evaluation and recommendations regarding the geologic and seismic hazards affecting development of the site, in accordance with the California building Code (CBC), Title 24 of the CCR and CGS Note 48, including the historical seismicity of the site area; surface fault rupture potential; anticipated ground accelerations, analysis of the seismic ground motion for the site in accordance with the 2016 CBC, ASCE 7-10, and ASCE 41-13; liquefaction potential, potential for any other secondary seismic effects, or the potential for any other geological or seismic hazards to affect the site.
- Recommendations for site grading, including removals and re-compaction requirements, excavations, placement of fill and backfill, and reuse of excavated materials;
- Recommendations for foundation design, including allowable bearing capacity and lateral resistance, and evaluation of settlements;
- Recommendations for retaining walls;
- Evaluation of soil corrosivity and expansion;
- Pavement recommendations; and
- Eight (8) copies of the final report will be submitted, along with an electronic file on a CD.

# 2.0 GEOLOGY AND SEISMIC SETTING

## 2.1 Regional Geology

The location to the site with respect to regional geology is presented in Figure 2 Regional Geologic Map. Regionally the campus is within the northwest coastal portion of the Peninsular Ranges geomorphic province. This province is characterized structurally by a series of northwest trending faults stepping westward from the San Andreas Fault Zone, including the Palos Verdes Fault locally. The site sits west of the Palos Verdes Fault within the uplifted hills of the Palos Verdes Peninsula. The peninsula is internally controlled by northwest trending folding and faulting which

began over 16 million years ago (Conrad and Ehlig, 1987). During the Middle Miocene, the peninsula was a submarine terrain. Marine sediments of the Monterey Formation were deposited and continued tectonic activity resulted in the formation of volcanic sills, tuffs, and basaltic intrusions. During the Pliocene, the marine platform continued to uplift and took on an anticlinal form, west of the Palos Verdes Fault. The peninsula was uplifted above sea level by Pleistocene time. The perimeter topography of the peninsula is dominated by wave-cut terraces.

## 2.2 Local Geology

The high school campus is located in the southeast portion of the Palos Verdes Peninsula, within an east-facing slope. The slope is terraced to the east, bordering the port of Los Angeles and steps up in elevation across the site from Elevation 150 ft to 200 ft at about 2H:1V (horizontal:vertical). The Monterey Formation bedrock is exposed at the surface or near the surface, covered with artificial fill and/or natural alluvium/colluvium. Review of historical topographic maps and boring logs indicate the site has been graded with fill pads in general, to create present grades.

The Monterey Formation mapped at the site by Dibblee (1999) consists of the Valmonte Diatomite and Altamira Shale, described as a laminated diatomaceous shale and mudstone. Bedding orientations of the shale measured at the site during pervious investigations indicate a general northeast and northwest strike, steeply dipping to the southeast and northeast, greater than 50 degrees. However, variations are common in locally folded areas. The regional bedding, indicates a general strike to the north and northwest, dipping about 20 degrees to the east and northeast. The site with respect to local geology onsite is presented in Figure 3.

## 2.3 Seismic Setting

The site is located within the seismically active area of southern California and there is a potential for the site to experience strong ground shaking from local and regional faults. A fault that is considered to be seismically active is one that has ruptured in the last approximate 11,000 years (Holocene). A fault that is considered to be potentially active is one that has ruptured in the last approximate 130,000 years. Current regional seismic conditions summarized here-in are largely based on data provided by the USGS online resources, unless otherwise noted. The location of the site with respect to regional faults with the potential for future seismic activity is presented in Figure 4 Regional Fault and Seismicity Map. Seismically active faults nearest to the site are discussed below and include the Cabrillo, Palos Verdes, Compton Thrust, and Newport Inglewood faults.

The Holocene active portion of the Cabrillo Fault is located offshore less than 2 miles south of the site, trending northwest. It is an estimated right-lateral normal fault with a potential for a magnitude (M) 6.5 earthquake. The fault extends onshore, about 0.7 miles west of the site, trending northwest across the peninsula. The onshore portion of the fault is considered potentially active, with a potential for a M6.7 earthquake. The estimated slip-rate between 0.2 and 1.0 mm/yr.

The Palos Verdes Fault is located less than 2 miles to the east of the site, trending northwest on and offshore 50 miles in length. The USGS identifies the offshore portion of this fault as active, while the onshore portion is poorly defined in location and activity. The City of Los Angeles identifies a special study zone for the onshore portion of this fault, as shown on Figure 6. It is a right-lateral reverse fault with a potentialM7.2 (Dawson and Weldon, 2012). The estimated slip-rate is between 1.0 and 5.0 mm/yr.

The Compton Blind Thrust Fault surface projection is about 4 miles east of the site. It dips gently to the east. It is capable of producing a M6.9 earthquake with an estimated slip-rate of 0.9 (Dawson and Weldon, 2012). Blind thrust faults have the potential for surface deflection or folding during earthquakes, however, because they are buried below the surface, they are not considered for AP Zoning.

The Newport-Inglewood Fault is located about 8.5 miles to the east of the site, trending northwest over 45 miles in length and is capable of generating a M7.2 earthquake with an estimated slip-rate of 1.0-5.0 mm/yr. It is responsible for the 1933 M6.7 Earthquake which ruptured near Newport Beach, about 18 miles southeast of the site. Segments along this fault zone south and north of the site are identified under the CGS AP Earthquake Fault Zone Act.

The San Andreas Fault is the most significant seismically active fault in the region. It stretches over 800 feet across the state of California and represents the boundary of the North American Tectonic Plate and the Pacific Tectonic Plate. It is over 60 miles east of the site, and considered capable of M7.9 earthquakes with an estimated slip-rate of 12.8 mm/yr in the southern San Bernardino section. Historical earthquakes of M7.0 and greater have been recorded on the San Andreas Fault, including the estimated M7.9 Fort Tejon Earthquake in 1857.

# 3.0 SITE CONDITIONS

## 3.1 Surface Conditions

The San Pedro campus is located northeast of the intersection of West 17$^{th}$ Street and South Leland Street, as shown in Figure 4. The existing buildings on campus planned to be demolished or modernized are shown in Figures 1 and 4. The general topography of the campus consists of a series of terraced cut and fill pads, descending from the southwest to the east, with an approximately 60-foot differential elevation between the southwestern limits of the site to the northeastern boundary (Figure 3). There is landscaping around the perimeter of most buildings and a number of stairs, ramps and hardscape serving as walkways throughout the campus. Paved parking lots are located on the northwestern, southwestern, and northeastern areas of the campus. A paved basketball court is located north of the existing Gym Building.

## 3.2 Subsurface Conditions

### 3.2.1 Previous Field and Laboratory Data

Field and Laboratory data from five previous GDC field investigations was reviewed and evaluated to assess the current site conditions. Applicable boring and laboratory data were used in our analyses. The previous GDC field investigations are summarized below:

- In **2015**, GDC conducted a field investigation at SPHS for the *Preliminary Geotechnical Report – Proposed Campus Improvement Project*, which consisted of drilling 3 borings (B-1 to B-3) on the western portion of the campus to depths of about 30 feet.
- In **2014**, GDC conducted a field investigation at SPHS for the *Comprehensive Geotechnical Report – Renovation of Classroom Building #2*, which consisted of drilling 2 borings (B-1 and B-2) on the southwestern portion of the campus to depths of about 20 and 35 feet, respectfully.
- In **2013**, GDC conducted a field investigation at SPHS for the *Geotechnical Investigation Report – Pavement Design and Infiltration Assessment*, which consisted of drilling 6 borings on the northeastern portion of the campus to depths of about 6.5 feet (B-3 to B-6) and 10 feet (B-1 and B-2). Percolation tests were conducted in borings B-1 and B-2.
- In **2011**, GDC conducted a field investigation at Dana Middle School (east of SPHS) for the *Geotechnical Engineering Report – Stability Evaluation of the Middle and Upper Slopes*, which consisted of drilling 5 borings (B-1 to B-5). Two borings (B-4 and B-5) were drilled on the SPHS campus near the eastern perimeter to depths of about 30 feet.
- In **2005**, GDC conducted a field investigation at SPHS for *the Foundation Investigation Report – Proposed 40-Foot Net Fence for San Pedro High School Baseball Field*, which consisted of drilling 4 borings on the northeastern perimeter of the campus to depths of about 25 feet (B-2 and B-4) and 30 feet (B-1 and B-3).

The previous exploration locations are shown on Figure 3. The previous data including boring logs and laboratory testing is included in Appendix C.

Field and laboratory data from prior reports done by others and provided by LAUSD for our review include the referenced reports below.

- Los Angeles Testing Laboratory Engineers – Chemists, 1936, Report on Sub-Surface Character and Load Bearing Properties of Soil, Proposed Auditorium and Physical Education Building, May 7, 1936.
- LeRoy Crandall and Associates, 1969, Report of Foundation Investigation for Proposed Shop Building Addition, San Pedro High School, October 16, 1969.

- MACTEC, 2005, Report of Geotechnical Investigation for Proposed Gymnasium Building, San Pedro High School, January 13, 2005.
- Maurseth & Howe, 1961, Foundation Investigation Report for Proposed Classroom Building Addition, San Pedro High School, April 1961.
- Maurseth & Howe, 1960, Foundation Investigation Report for Proposed Girl's Gymnasium Exercise Room, May 1960.

### 3.2.2 Field Exploration

To investigate the soil and bedrock conditions for the planned improvements and to supplement the previous data, 15 borings (B-1 through B-15) were drilled at the central and western areas of the campus at the locations shown on Figure 4. The borings were advanced to depths of about 26.5 feet below the existing grades. All borings were terminated a minimum of 10 feet into bedrock. It is important to note that when the elements/buildings for the Campus Improvement Project are finalized, it may be necessary to drill additional borings to meet the CBC requirement that there is at least 1 boring per 5,000 square feet of building footprint.

The explorations were performed under the continuous technical supervision of our field engineer, who maintained detailed logs of the soil and bedrock encountered, classified the materials, and assisted in obtaining soil samples. Relatively undisturbed samples were taken in the borings at about 5-foot depth intervals. Representative bulk samples were also taken. Additional details of the field exploration program, including copies of the boring logs, are presented in Appendix A.

### 3.2.3 Laboratory Testing Program

The soil samples collected using Modified California (MC) ring samplers from the geotechnical borings were taken to our laboratory for further visual examination and for laboratory testing. Laboratory testing was performed to evaluate the engineering properties of the soils, to assist with classifying soils, and to correlate materials across the site.

Laboratory testing included:

- Moisture Content and Dry Unit Weight;
- Atterberg Limits;
- -200 Wash;
- Direct Shear;
- One-Dimensional Consolidation;
- Expansion Index;
- Soil Corrosivity

Details of the laboratory testing program are included in Appendix B.

### 3.2.4 Soil Profile

Generalized geologic cross-sections showing the subsurface conditions encountered in the borings are presented in Figures 5A and 5B. Fill and native alluvium-colluvium overlying claystone bedrock was encountered. The fill and native alluvium-colluvium consisted of primarily medium to dark brown lean clay and to a lesser extent fat clay. The soils were very stiff to hard, with measured shear strengths ranging from 2 to 4.5 ksf. The bedrock consisted of diatomaceous shales of the Valmonte Formation. The bedrock encountered was thinly bedded and highly to moderately weathered. The bedrock is considered to be dense from a geotechnical standpoint. All borings were terminated a minimum of 10 feet into the bedrock.

### 3.2.5 Groundwater

Groundwater was not encountered in the recent and previous borings, which extended to a maximum depth of 36.5 feet. Along the eastern coastline, east of the site, historical high groundwater depths were reported at 10 feet below ground surface elevation of about 50 feet (CDMG, 1998). The site is at an average Elevation of 200 feet. Figure 6 shows the CDMG publication Historic High Groundwater Map. Possible seeps of shallow perched water may exist anywhere on the site due to irrigation and seasonal storms. However, in general, groundwater levels are anticipated to be greater than 50 feet at the site.

# 4.0 GEOLOGICAL HAZARD EVALUATION AND SEISMIC DESIGN

## 4.1 Seismic Design Considerations

The geologic-seismic hazards evaluation for this project addresses requirements of Title 24 of the California Code of Regulations and California Geological Survey Checklist for Review of Geologic/Seismic Reports for California Public Schools, Hospitals, and Essential Services Building (CGS Note 48). A ground motion hazard analysis for the site was also performed in accordance with the 2016 California Building Code/ASCE 7-10. The majority of the seismic background used in our evaluation is comprised of USGS online seismic hazard data base and Earthquake Catalog, CGS online Geologic Hazards Maps and reports, and city Safety Element figures, unless otherwise noted.

## 4.2 Ground Surface Rupture

Current USGS, CGS, and City of Los Angeles Safety Element maps were reviewed to evaluate the potential for surface fault ground rupture at the site. The campus is not located in an Alquist-Priolo (AP) Special Study Fault Zone. The closest fault related study zone is for the Palos Verdes Fault less than 2 miles east of the site, designated by the City of Los Angeles as shown in Figure 7. The offshore Holocene-active Cabrillo fault is mapped south of the site, projecting north toward the site over 2.2 miles away. However, the onshore mapped extension of this fault does not cross the site, it bends to the west about 0.7 miles west of the site and considered potentially active. Based on a literature review, no known active faults are mapped as crossing the site or

projecting towards the site. Therefore, the possibility of ground surface fault rupture at the site is considered low.

## 4.3 Seismic Ground Motion Values

### 4.3.2 Ground Motion Seismic Parameters per CBC 2016 / ASCE 7-10

Design ground motion parameters were developed in accordance with CBC 2016 / ASCE7-10 for the new structures (Admin/Classroom Building, Band/Arts Building, and Lunch Shelter). The site coordinates used in our seismic hazard analysis are: 33.72962 (Latitude) and -118.30025 (Longitude). Site Class D corresponding to a "Stiff Soil" profile was assumed for the site.

The seismic design parameters were calculated using the USGS Ground Motion Parameter Calculator (Version 5.1.0), are summarized in Table 1.

Table 1: Seismic Ground Motion Values per CBC 2016 / ASCE 7-10

| Parameter | Value |
|---|---|
| Site Class | D |
| Seismic Design Category | D |
| Mapped $MCE_R$ Spectral Response Acceleration at Short Period ($S_S$) | 1.559g |
| Mapped $MCE_R$ Spectral Response Acceleration at Period of 1 Second ($S_1$) | 0.598g |
| Site Coefficient, $F_a$ | 1.0 |
| Site Coefficient, $F_v$ | 1.5 |
| Adjusted $MCE_R$ Spectral Response Acceleration at Short Period ($S_{MS}$) | 1.559g |
| Adjusted $MCE_R$ Spectral Response Acceleration at Period of 1 Second ($S_{M1}$) | 0.897g |
| Design Earthquake Spectral Response Acceleration at Short Period ($S_{DS}$) | 1.040g |
| Design Earthquake Spectral Response Acceleration at Period of 1 Second ($S_{D1}$) | 0.598g |
| Peak Ground Acceleration Adjusted for Site Class ($PGA_M$) | 0.633g |

Calculations for the seismic design parameters and response spectrum are provided in Appendix D. The response spectrum may be used for the analyses, unless site-specific dynamic analyses are performed. The Structural Engineer should evaluate the appropriate seismic criteria for building design.

### 4.3.3 Ground Motion Seismic Parameters per CBC 2016 / ASCE 41

Seismic evaluation and design for retrofit of existing structures are generally subject to standards of Chapter 34 of the California Building Code, which adopts certain section of ASCE 41 "Seismic Evaluation and Retrofit of Existing Buildings", with some modifications to the provisions of ASCE 41. Seismic ground motions values per Chapter 34 of CBC, and ASCE 41 are selected based on

Target Building Performance Levels, ranging from Collapse Prevention to Life Safety anticipating a higher level of damage to Immediate Occupancy or Operation anticipating a lower threshold for damage.

ASCE 41 defines two sets of seismic hazard levels: one for Basic Performance Objective for Existing Buildings (BPOE) and another for Basic Performance Objective Equivalent to New Building Standards (BPON). The hazards used for BPOE are Basic Safety Earthquake 1 (BSE-1E) and Basic Safety Earthquake 2 (BSE-2E). The hazards used for BPON are Basic Safety Earthquake 1 (BSE-1N) and Basic Safety Earthquake 2 (BSE-2N). BSE-2N is the same as the Maximum Considered Earthquake ($MCE_R$) in ASCE 7, and BSE-1N is 2/3 of BSE-2N.

Site Class D corresponding to a "Stiff Soil" profile was assumed for the site. Ground Motion Values were calculated using the USGS Seismic Design Maps (http://earthquake.usgs.gov/designmaps/us/application.php) Online Application for the following four hazard levels, per the standards of CBC 2016 and provisions of ASCE 41, for Site Class D.

Table 2: Seismic Ground Motion Values per CBC 2016 / ASCE 41

| Earthquake Hazard Level | Short Period Spectral Acceleration, $S_{XS}$ (g) | Spectral Acceleration at 1 Second, $S_{X1}$ (g) | Peak Ground Acceleration, PGA (g) |
|---|---|---|---|
| BSE-2E, 5% in 50 years | 1.171 | 0.644 | 0.469 |
| BSE-1E, 20% in 50 years | 0.708 | 0.393 | 0.283 |
| BSE-2N, $MCE_R$ | 1.559 | 0.897 | 0.624 |
| BSE-1N, 2/3 x $MCE_R$ | 1.039 | 0.598 | 0.416 |

Calculations for the seismic design parameters and response spectrum are provided in Appendix D. The response spectrum may be used for the analyses, unless site-specific dynamic analyses are performed. The Structural Engineer should evaluate the appropriate seismic criteria for building design.

## 4.4 Local Historic Earthquakes

Local historic earthquake records provided by the USGS online earthquake search catalog indicate the site is within a seismically active region. A search for earthquakes of magnitude (M) 4.0 or greater within a 60-mile radius of the site, record 184 earthquakes since 1933. Seventeen of which were M5.0 or greater and two of which were M6.0 or greater. The closest earthquake of M4.0 or greater to the site is a M4.5 earthquake in 1939, located about 2 miles northwest of the site. The closest recorded significant earthquake is a M6.4 earthquake in 1933, located about 25 miles southeast of the site along the Newport Inglewood Fault Zone. The largest earthquake magnitude occurring within the 60-mile radius is a M6.7 earthquake in 1994, located

approximately 37 miles north of the site on the Northridge Blind Thrust Fault. Figure 3 illustrates the location of regional mapped faults and earthquake epicenters recorded by USGS.

While not within the search radius, earthquakes of M7.0 and greater have been recorded in southern California. A M7.5 earthquake in 1952 located about 95 miles north of the site associated with the San Andreas Fault and a M7.3 earthquake in 1992 located about 112 miles east of the site associated with the Johnson Valley Fault.

## 4.5 Secondary Seismic Effects

Potential secondary seismic effects from earthquakes for any site could include liquefaction and associated ground deformations, slope instability, tsunami and seiches, and ground lurching. These and other potential seismic hazards for the site are discussed below.

### 4.5.1 Liquefaction and Seismic Settlement

Liquefaction involves sudden loss in strength of a saturated, cohesionless soil caused by the build-up of pore water pressure during cyclic loading, such as that produced by an earthquake. This increase in pore water pressure can temporarily transform the soil into a fluid mass, resulting in differential settlements and ground deformations. Typically, liquefaction occurs in areas where there are loose soils and the depth to groundwater is less than 50 feet from the surface. Seismic shaking can also cause soil compaction and ground settlement without liquefaction occurring, including settlement of dry sands above the water table.

The site is not located within a liquefaction hazard zone (CDMG, 1999), shown in Figure 7 Earthquake Zones of Required Investigation Map. Groundwater was not encountered in borings drilled to a maximum depth of 36.5 feet on site. Bedrock was encountered near the surface in the recent borings B-4, B-8, B-9, B-10, B-11, B-12 and B-13 and about 5 to 16 feet deep in remaining borings. The clayey overlying surficial materials and shallow bedrock at the site are not considered susceptible to liquefaction. Therefore, the potential for liquefaction, lateral spreading, and seismic compaction to occur at the site is considered to be remote.

### 4.5.2 Seismic Slope Stability

The site is not located within a State of California Earthquake-Induced Landslide Hazard Zone (CDMG 1999), shown in Figure 7. The likelihood of seismic slope stability at the site is remote.

### 4.5.3 Tsunami and Seiches

All low-lying areas along California's coast are subject to potentially dangerous tsunamis. Tsunamis are long-period waves generated primarily from distant and local submarine earthquakes, landslides, or volcanic eruptions. The site is located about 1 mile from the Pacific Ocean/Los Angeles Harbor coast and the average elevation of the site is about 200 feet mean sea level. Therefore, the potential for a Tsunami is not considered an issue for the site. Since there are no large bodies of water near the site, the potential for seiches is also not considered an issue.

## 4.6 Landslides

The surrounding topographic relief is gently sloping down to the east. The City of Los Angeles has mapped this area to have a potential for shallow surficial slope instability, however, the site lies outside the City's mapped landslide hazard areas (1996), shown in Figure 8. Review of topographic maps and aerial photographs indicate existing landslides at the site. Locally, the site is terraced down to the northeast with cut and fill pads. Engineered slopes are laid back or retained with wall structures. Previously, surficial instability was recorded along the east facing slope, along the eastern boundary of the site (GDC, 2011). The slope is approximately 30 ft in maximum height and descends offsite at a 1H:1V to 0.5H:1V (Horizontal:Vertical). The face of the slope was protected with shotcrete, which had signs of wear due to possible drainage obstruction. The slope was evaluated to be generally stable (GDC, 2011). Drainage and shotcrete maintenance was recommended.

## 4.7 Flooding and Inundation

Flooding and inundation potential at the site were evaluated through review of maps provided by FEMA and the City of Los Angeles Seismic Safety Element (1996). FEMA classifies the site as being in Zone X, which is an area that is not within an area of 1% annual chance of flood with average depth of less than 1 foot. The site lies outside the City of Los Angeles identified flood plains or inundation area. Topographically, the site is situated within a developed, terraced slope. Therefore, the flood and inundation hazard for this site is considered to be low.

## 4.8 Corrosive, Expansive, and Collapsible Soils

Corrosivity and moisture stability of soils onsite were evaluated through observations and laboratory testing of samples collected during our field investigation and investigations performed by others. A discussion of the results of our evaluation is presented in Section 5.6.2, 6.10 and 6.12 of this report and the result of the laboratory tests are presented in Appendix B. Corrosivity, expansion and collapse potentials are not considered to be a significant impact to the project, such as the conditions are properly addressed during design and construction.

## 4.9 Ground Lurching

Ground lurching usually occurs during seismic events along cliffs, ridges, stream banks and/or along the ridge of artificial embankments. Given that the site has no bordering bodies of water and is comprised of consolidated bedrock materials, the risk from ground lurching or lateral spreading at the campus is low.

## 4.10 Subsidence

The bedrock underlying the site is not considered a groundwater source and oil extraction in the area is generally east of the Palos Verdes Fault. Therefore, the potential for subsidence due to groundwater or oil extraction is considered low and is not anticipated to significantly impact development at the site.

## 4.11 Other Geologic Hazards or Considerations

Naturally occurring hazardous elements within the subsurface materials, such as asbestos, radon, and oil and methane gas were evaluated for the potential presence on or near the site. Maps provided by CGS, the City of Los Angeles, and the County of Los Angeles were reviewed for the potential of these geologic hazards. The CGS Map Sheet 59, of known sites with naturally occurring asbestos does not indicate there is a potential for naturally occurring asbestos to be at the site and the hazard is considered to be low.

California Geological Survey Special Report 224, Plate 1 (shown in Figure 9) indicates the western portion of the site is within a zone with moderate potential for indoor radon levels above 4 picocuries per liter (CGS, 2005). The eastern portion of the site is mapped within an unknown potential for indoor radon levels above 4 picocuries per liter. Four picocuries per liter is recommended to be an action level for radon reduction by the U.S. Environmental Protection Agency. Radon potential should be evaluated by a radon specialist and can be mitigated through design. Therefore, radon potential is not considered to have significant impact to the project.

Southern California has a long history of oil production. East of the site is one of the largest oil field in southern California, the Wilmington Oil Field. However, the site sits topographically higher and geologically different from the Wilmington oil field areas. In addition, the site is outside areas mapped in the City of Los Angeles Safety Element for Oil Fields and Oil Drilling areas (1996). The City of Los Angeles Methane and Methane Buffer Zone Map (2004) indicates the site is outside of a Methane Zone/Buffer Zone, shown in Figure 10. Therefore, the occurrence of significant amounts of naturally occurring oil and or methane gases onsite is considered low.

# 5.0 DISCUSSION AND RECOMMENDATIONS

## 5.1 General

At this time improvement plans are conceptual and architectural and structural details, including anticipated structural loadings, are not available for the new structures (Admin/Classroom Building, Band/Arts Building, and Lunch Shelter) and any buildings to be seismically retrofitted. As noted, prior to the development of final plans, additional borings may be required to meet a minimum of one (1) boring for every 5,000 square-feet of building footprint.

Based on the current findings of our field explorations and engineering analyses, it is our opinion that the site is suitable for the proposed improvements from a geotechnical standpoint. Following demolition of existing improvements as required, site grading should include the removal and replacement of any existing uncertified/unsuitable fill and loose native soils with properly compacted engineered fill.

Following proper grading, the proposed Admin/Classroom Building, Band/Arts Building, and Lunch Shelter Building can be supported on conventional shallow foundations founded in new structural fill or firm native soils. The existing near surface soils have a medium expansion potential, which needs to be considered in the design of foundations and slabs. Preliminary geotechnical recommendations for site grading and foundation design are provided in the following sections.

## 5.2 Demolition

Demolition will be required to remove the existing structures and hardscapes prior to constructing the new Admin/Classroom, Band/Arts, and Lunch Shelter Buildings. Any void created from the demolition should be properly backfilled to the limits determined by the project geotechnical engineer. Any soils loosened or disturbed during the demolition should also be removed.

## 5.3 Removals

Prior to the start of grading, the new building sites should be stripped of any vegetation and topsoil. The vegetation should be removed. The topsoil may be stockpiled and reused in landscaped areas. Up to about 5 feet of possible fill was encountered in the area of the Shop and Industrial Arts Building (B-15), up to about 8 feet in the area north of the Physical Education Building (B-1, B-2, B-3, B-6, and B-7), and about 16.5 feet in the northwest corner of the site near the portable units with potentially deeper fill present in B-5 and B-14.

Cut and fill grading techniques are common in hillside construction, therefore encountering areas of deeper fill is possible for this site. It should be anticipated that existing fill could be present anywhere on the site, and could be locally deeper. Existing fill should be considered as uncertified and should not be used to support foundations, pavement, and hardscape. The

buried remnants of previous construction may also be encountered anywhere on the site, including foundations, slabs and utilities.

Highly expansive soils (Expansion Index greater than 91) were encountered in areas roughly 100 feet from the proposed building pad areas in borings B-1 (2014) and B-5 (2013). The areas appear to be localized; however they may be present anywhere on the site. All highly expansive soils shall be removed and should not be used to support foundations, pavement, and hardscape.

In pavement areas, the removal and recompaction should extend to a minimum depth of 1 foot. All removals should extend a minimum of 5 feet outside building and pavement areas, or a distance equal to the depth of excavation, whichever is greater. The actual limits for removals should be determined by the project geotechnical engineer during grading, based on the actual conditions encountered.

The civil engineer should identify the presence and location of all existing utilities in and near the work area. Precautions should be taken to remove, relocate or protect existing utilities, as appropriate.

## 5.4 Earthwork and Grading

All grading should conform to the requirements of the 2016 California Building Code and the general grading recommendations outlined below.

- The grading contractor is responsible for notifying the project geotechnical engineer of a pre-grading meeting prior to the start of grading operations and anytime that the operations are resumed after an interruption.
- As discussed in Section 5.3, during grading, the geotechnical engineer should determine the limits for the removal and recompaction of any existing fill, unsuitable native soils and highly expansive soils, based on the actual conditions encountered.
- The near surface clay soils are classified as CALOSHA Type B Soils. Temporary excavations up to 4 feet deep should stand with vertical sides, but sandy soils will tend to slough as they dry and forming may be required. Deeper excavations should be sloped at 1H:1V or flatter, or shoring should be used.
- The bottom of the excavation for removals should be observed and approved by the project geotechnical engineer. Any loose or yielding soils should be overexcavated and recompacted to the limits determined by the project geotechnical engineer.
- The exposed bottoms of excavations for removals and pads should be scarified to a depth of 6 inches, moisture conditioned to the optimum moisture content, and compacted to at least 95 percent relative compaction as determined by ASTM D1557.
- All structural fill should consist of generally sandy soils, and should be free of expansive clay, rock greater than 3 inches in maximum size, debris and other deleterious materials.

All structural fill should be compacted to at least 95 percent of the maximum dry density determined by ASTM D 1557. Fill placed in non-structural and landscape areas should be compacted to at least 90 percent. Bedding and backfill of utility trenches are discussed in Section 5.7.

- In general, the near surface clay soils encountered in our explorations were found to be Medium expansive. However, locally highly expansive soils were also encountered. Further testing during grading should be planned to identify the expansiveness of the soils. All fill soils shall be approved by the project geotechnical engineer before use. However, fine-grained soils will require careful moisture control and will be difficult to dry back if they are wet, or become wet.
- All earthwork and grading should be performed under the observation of the project geotechnical engineer. Compaction testing of the fill soils shall be performed at the discretion of the project geotechnical engineer. Testing should be performed for approximately every 2 feet in fill thickness or 500 cubic yards of fill placed, whichever is more restrictive. If specified compaction is not achieved, additional compactive effort, moisture conditioning, and/or removal and recompaction of the fill soils will be required.
- All materials used for asphalt, concrete and base shall conform to the current "Green Book," and shall be compacted to at least 95 percent relative compaction.
- If, in the opinion of the geotechnical engineer, contractor, or owner, an unsafe condition is created or encountered during grading, all work in the area shall be stopped until measures can be taken to mitigate the unsafe condition. An unsafe condition shall be considered any condition that creates a danger to workers, on-site structures, on-site construction, or any off-site properties or persons.

## 5.5 Imported Soils

If imported soils are used as structural fill, the soils shall be free of vegetation organic materials, expansive clay, debris, or rocks greater than 3 inches in any dimension, and shall be approved by the project Geotechnical Engineer. Imported soils shall have an expansion index of less than 30 and plasticity index of less than 15.

## 5.6 Temporary Excavations

The clay encountered at the site are generally classified as CALOSHA Type B soil. Temporary excavations can be made vertical for a depth of 4 feet. Deeper excavation should have should be sloped at 1 H:1V or flatter, or shoring should be used.

If shoring is required, either cantilever or braced shoring can be utilized. Cantilever shoring should be designed for an active earth pressure equivalent to a fluid weighing 40 pcf. Braced temporary shoring should be designed for a lateral earth pressure of 20H, applied as a uniform pressure to the full height of the shoring, where H is the height of the excavation. These lateral earth

pressures assume level backfill and drained conditions and do not include surcharging from adjacent loads.

Surcharge loads, such as vehicular traffic, heavy construction equipment, and stockpiled materials, should be kept away from the top of temporary excavations a horizontal distance at least equal to the depth of excavation. Surface drainage should be controlled and prevented from running down the slope face. Ponding water should not be allowed within the excavation. Construction equipment and foot traffic should be kept off excavation slopes to minimize disturbance/sloughing.

All excavation slopes and shoring systems should meet the minimum requirements of the Occupational Safety and Health (OSHA) Standards. Maintaining safe and stable slopes on excavations is the responsibility of the contractor and will depend on the nature of the soils and groundwater conditions encountered and his method of excavation. Excavations during construction should be carried out in such a manner that failure or ground movement will not occur. The contractor should perform any additional studies deemed necessary to supplement the information contained in this report for the purpose of planning and executing his excavation plan.

## 5.7 Foundation Recommendations

Following proper site grading, the new structures can be supported on conventional shallow footings and a slab on grade. Foundation recommendations are provided below.

### 5.7.1 Bearing Capacity

Following proper site grading, conventional spread footings may be used for support with a minimum width of 1.5 feet and embedment of 2 feet may be designed for an allowable bearing pressure of 3,000 psf. The allowable bearing capacity can be increased by 400 psf for each foot of increase in width and/or depth of embedment, up to a maximum allowable bearing capacity of 4,000 psf. The allowable bearing pressure can be increased by one-third for temporary loads associated with wind and seismic loading.

The project geotechnical engineer should perform compaction tests, probing, or use other methods, to verify that the foundations are supported in competent soils. If disturbed, wet, or otherwise unsuitable soils are encountered, or if water saturates the soils, the soils shall be excavated or stabilized as recommended by the project geotechnical engineer.

The near surface clayey soils predominantly consist of very stiff to hard clay that has a medium expansion potential, with an Expansion Index (EI) of up to 55. Therefore, any footings for at grade structures should be designed for medium expansive soils, as discussed in Section 5.11.

All foundation excavations should be checked by the project geotechnical engineer before the placement of reinforcing steel. Any loose or soft soils should be excavated and recompacted with

structural fill. The limits for the excavation should be determined by the geotechnical engineer.

### 5.7.2 Settlement

The anticipated structural loads are not currently known. The total settlement of properly designed foundations are estimated to be less than 1 inch, with a differential settlement less than 0.5 inch, between adjacent similarly loaded footings. Settlement will occur due to elastic compression of very stiff to hard clays or structural fill; and the majority of settlement is expected to occur shortly after construction.

### 5.7.3 Lateral Capacity

Resistance to lateral loads can be provided by friction developed between the bottom of footings and the supporting soil, and by the passive soil pressure developed on the face of the footing. For design purposes, an allowable passive fluid pressure of 300 pcf and a coefficient of friction of 0.3 may be used for lateral sliding resistance of footings.

### 5.7.4 Slab on Grade

The slab on grade shall be supported on properly compacted subgrade. To reduce the potential for moisture transmission through slabs where moisture sensitive covering will be installed, we recommend that a vapor retarder shall be used. In accordance with the City Green Building Code, A 4-inch thick base of ½ inch or larger clean aggregate shall be provided for the proposed slab on grade construction.

In accordance with ACI 302.2R-06, the material must comply with the requirements of ASTM E 1745, “Standard Specification for Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs,” and have a permeance of less than 0.01 perms per ASTM E96. The installation of the moisture barrier should comply with ASTM E 1643-09.

Reference is made to ACI 302.2R, Section 7.2, concerning whether to place 2 inches of sand over the barrier, which states that the anticipated benefits and risks associated with the specified location of the vapor retarder should be reviewed by the structural engineer, civil engineer and the architect.

## 5.8 Permanent Slopes

Permanent fill and cut slope should be constructed no steeper than 2(H) to 1(V). All properly constructed slopes are considered to be grossly and surficially stable. However, any slope will be subject to erosion and degradation with time, due to both natural and manmade conditions. With proper care such issues can be mitigated. Care should be taken to maintain a uniform moisture content in slope soils, and to avoid over–drying and excessive irrigation. In addition, slope maintenance should include immediate planting of the slope with approved, deep rooted, lightweight, drought resistant vegetation, as well as proper care of drainage devices and a continuous rodent control program. Any brow ditches and terraces should be cleaned as

necessary after each rainstorm. Access to slopes, including foot traffic should be restricted to avoid local disturbance of soils.

## 5.9 Minor Retaining Walls

### 5.9.1 Wall Pressures and Footing Design

We understand that no basements are planned for the project. Recommendations for cantilever retaining walls are provided below:

Cantilever retaining walls, which are free to move laterally at least ½ inch for each 10-feet in height, may be designed for an equivalent fluid pressure of 40 pcf (with level backfill) or 60 pcf (for 2:1 sloping backfill). These pressures assume that proper drainage is provided behind the walls to prevent the build-up of hydrostatic pressures. The finish ground surface behind the top of the wall should be graded to drain away from the back of the wall.

Normal traffic loads (if applicable) can be modeled as 2 ft of soil surcharge or 240 psf vertical pressures. This lateral pressure should be applied from ground level to a depth of 10 feet. This does not consider cranes or other heavy equipment.

According to Section 1803.5.12 of the CBC 2016, for structures assigned to Seismic Design Category of D through F (i.e. subject site), walls 6 feet or greater in height should be designed for seismic loading. The magnitude of the seismic pressure can be evaluated using the procedures developed by Mononobe-Okabe (Seed and Whitman, 1970), which considers that the seismic pressure is approximated using a lateral pressure coefficient of 0.75 times an effective ground acceleration. The effective ground acceleration is taken as equal to 0.67 times the maximum expected ground acceleration.

For this project, the maximum peak ground acceleration is 0.633. On this basis, the effective ground surface acceleration is 0.317 g. Considering a soil unit weight of 100 pcf, we recommend using an equivalent fluid pressure of 31 pcf to calculate the lateral seismic pressure. The resultant of the seismic pressure should be applied at a height 0.6 times the wall height above the base of the wall. The structural engineer may want to consider the use of a lower factor of safety in evaluating the seismic design of walls, due to the temporary nature of the loading.

The design of wall footings should be performed in accordance with Section 6.7.1. Retaining wall footings on level ground should have a minimum embedment of 18 inches below finish grade. Retaining walls founded on a 2:1 slope should have a minimum embedment of 36-inches below finish grade above the slopeward edge of footing. The footing should be sized so the resultant of the foundation load is applied within the center one-third of the footing width.

Heavy compaction equipment operating adjacent to retaining walls can cause excessively high lateral soil pressures to be exerted on the wall. Therefore, soils within 5 feet of the wall should either be compacted with hand-operated equipment or designed or shored to withstand compaction pressure from heavy equipment.

### 5.9.2 Retaining Wall Backfill

We recommend that retaining walls be backfilled with non-expansive granular soils with a PI less than 15 and percent passing No. 200 sieve of less than 15 percent. A 2-ft thick cap consisting of less pervious onsite materials should be used to minimize infiltration of surface water. The finished surface should be graded to drain away from the proposed structures. Heavy compaction equipment operating adjacent to retaining walls can cause excessively high lateral soil pressures to be exerted on the wall. Therefore, soils within 5 feet of the wall should either be compacted with hand operated equipment or designed to withstand compaction pressure from heavy equipment.

Below ground walls should be waterproofed.

### 5.9.3 Retaining Wall Drainage

Retaining walls should be constructed with a properly designed drainage system to prevent buildup of hydrostatic pressures behind the wall. This may consist of geocomposite drain board or 12 inch of clean crushed rock encapsulated in filter fabric, discharging to weep holes or drain pipes. Basement walls or walls with architectural facades or coverings should be properly waterproofed to minimize moisture transmission through the walls. Typical retaining wall backfill and drainage is shown in Figure 12.

## 5.10 Site Drainage

The site should be graded to maintain positive drainage, so all runoff is properly collected and conveyed to proper disposal in approved storm drains or drainage devices. The area around foundations should be sloped at 2 percent to drain runoff away and prevent ponding of water.

## 5.11 Expansive Soil

Based on recent and previous laboratory testing, the existing clayey fill and near surface native soils at the proposed building pad areas have an Expansion Index (EI) as high as 55, which corresponds to a medium expansion potential. Two near surface samples in previous borings roughly 100 feet from the proposed building pads have an EI as high as 94, which corresponds to a high expansion potential. However, these areas appear to be localized. Any highly expansive soils encountered during grading activities shall be removed and replaced as discussed in Section 5.3 and 5.4.

The local standard of practice for the design and construction of foundations, slabs, and hardscape supported on soils with a medium expansion potential is provided below. A medium expansion potential corresponds to an EI of 51 to 90. Structural design requirements may require greater thickness and/or more reinforcing than indicated, and should be evaluated by the structural engineer.

- Footings should be founded at least 18 inches below lowest adjacent grade.
- Footings should be reinforced with one #4 bar top and bottom.
- The concrete slabs and panels should be at least 4 inches thick and should be reinforced with a 6" x 6" – 10/10 mesh, or #3 bars at 24 inches center to center, both ways.
- Prior to placing concrete, the subgrade should be pre-saturated to 120 percent of optimum to a depth of at least 12 inches below the bottom of footing/slab.
- Concrete slabs and hardscape should have a maximum joint spacing of 10 feet; #3 bars dowels at construction joints; and, the outside edge should be deepened to a thickness of 12 inches. One #3 bar should be used to reinforce the flared edge.
- The adjacent area should be slope at 2 percent, or greater, to drain away from slabs and pavements.
- For additional protection, consideration should also be given to removing the upper 6 inches of expansive soils below slabs and paving and replacing it with non-expansive sandy soil having an EI of not greater than 20.
- Bushes, trees and irrigation pipes and valves should be keep sufficiently way from the edges of foundations and hardscape to prevent root damage, and/or moisture changes in the supporting subgrade.

## 5.2 Utility Installations

If new buried service lines will be installed, the bedding should be a minimum of 4 inches thick and should consist of clean sand, No. 4 concrete aggregate or gravel, and should have a sand equivalent of not less than 30. Concrete encasement is anticipated for electrical conduits. The pipe zone material, which extends to a level 12 inches above the pipe should consist of sand and should have a sand equivalent of no less than 30, and a maximum rock size of 1 inch. All imported materials should be approved by the project geotechnical engineer before being brought onsite.

Trench zone backfill extends from a level 12 inches above the pipe to finished subgrade. Trench zone material should have a maximum size of 2 inches and should contain no organics or other deleterious materials. Most of the near surface soils at the site can be used for trench zone backfill. All fill soils should be approved by the project geotechnical engineer. Soils proposed to be imported should be approved before being brought on site.

All bedding and backfill materials should be mechanically compacted to at least 90 percent relative compaction. Jetting or flooding of backfill should not be permitted.

To prevent water from draining under building slabs through bedding on trench backfill, it is recommended that a concrete "dam" be installed outside the point of entry. The dam should be about 12 inches in thickness and extend at least 1 foot outside the width of the trench.

## 5.13 Soil Corrosivity

Representative samples of the near surface soils encountered were tested to evaluate corrosion characteristics. The results from recent and previous applicable borings indicate the test samples had a pH of 7.70 to 8.10; a water-soluble sulfate content of <0.01% to 0.03%, and a soluble chloride content of <0.01% to 0.09%. The sulfate results indicate that sulfate exposure is classified as negligible. The chloride results indicate the soils are corrosive to buried metals.

The tested samples were also found to have a minimum measured electrical resistivity of 356 to 1,303 Ohm-cm. The following correlation can generally be used between electrical resistivity and corrosion potential:

| Elect. Resistivity (Ohm-cm) | Corrosion Potential |
|---|---|
| less than 1,000 | Severe |
| 1,000-2,000 | Corrosive |
| 2,000-10,000 | Moderate |
| Greater than 10,000 | Mild |

On the basis of the laboratory testing, the test samples are classified as corrosive to buried metals. Further evaluation and testing and alternatives for corrosion protection should be provided by a corrosion consultant.

## 5.14 Pavement Design

Near surface soils consist of primarily lean clay. Based on an assumed R-value of 15, the following pavement sections are recommended for Traffic Index (TI) values of 4, 5, 6, and 7:

Table 3. Traffic Index and Section Thickness

| Traffic Index (TI) | Section Thickness (Feet) AC Over AB |
|---|---|
| 4 | 0.25 AC/0.5 AB |
| 5 | 0.25 AC/0.65 AB |
| 6 | 0.30 AC/0.85 AB |
| 7 | 0.35 AC/1.05 AB |

Traffic Index values of 4 to 5 are recommended for car parking and non-truck areas. Traffic index of 6 or higher may be used for truck areas or for the streets. A concrete pavement consisting of 6 inches of concrete over 6 inches of aggregate base is recommended to be used for trash enclosures and other areas that will be subjected to high wheel loads or abrasive wheel forces, i.e., where there is a tight turning radius. The pavement section for other TI's can be provided, if requested. The upper 12 inches of subgrade supporting pavements should be compacted to at least 95 percent relative compaction (ASTM D1557).

## 5.15 Infiltration

The soils at the site consist of silty clay, silts, and siltstones. At two locations in the northern part of the campus infiltration testing was previously performed by GDC. The calculated permeability rate at the adjacent site ranged from 0.007 to 0.008 inches per hour, which is very low. Based on the City of Los Angeles Standard Urban Stormwater Mitigation Plan (SUSMP) Infiltration Requirements and Guidelines (http://www.lastormwater.org/siteorg/businesses/susmp/SUSMPInfiltrationGuidelines.pdf), the minimum percolation rate is required to be at least 0.5 inches per hour. On this basis, infiltration at this site appears to be impractical.

## 5.16 Environmental Issues

Evaluation of environmental issues for this project and their impact on site development are outside the scope of our work and are the responsibility of the project environmental consultant.

# 6.0 POST INVESTIGATION SERVICES

We recommend that final project plans and specifications should be reviewed by GDC to confirm that the full intent of the recommendations presented in this report have been properly applied to the design. During construction, all earthworks should be observed and tested by GDC, including site preparation, excavations, placement of compacted fill and backfill, and installation of drainage systems.

# 7.0 LIMITATIONS

The conclusions and recommendations contained in this report are professional opinions that were compiled by searching published data, and are intended for the use of the LAUSD for the proposed development at this site. The recommendations should not be extrapolated to areas not covered by this report, or used for other facilities without the review and approval of GDC. If this report, or portions of this report, is provided to contractors, or included in specifications, it should be understood that they are provided for information only.

Our investigation and evaluations were performed in accordance with generally accepted local and state standards using that degree of care and skill ordinarily exercised under similar circumstances by reputable geotechnical consultants practicing in this or similar localities. No other warranty, expressed or implied, is made as to the professional advice included in this report.

# 8.0 REFERENCES

California Building Code (CBC), 2016, published by International Conference of Building Officials, Whittier, California.

California Department of Conservation, Division of Mines and Geology, 1998, Seismic Hazard Zone Report 024, Seismic Hazard Zone Report for The San Pedro 7.5-Minute Quadrangle, Los Angeles County, California.

California Department of Conservation, Division of Mines and Geology, 1990, "Fault-Rupture Hazard Zones in California, Alquist-Priolo Special Studies Zones Act of 1972," Special Publication 42, Department of Conservation, California Division of Mines and Geology.

California Department of Conservation, California Emergency Management Agency, 2009, Tsunami Inundation Map for Emergency Planning.

California Division of Mines and Geology, (1999), Seismic Hazard Zones Map, San Pedro Quadrangle, Los Angeles County, California, March 25, 1999.

California Geological Survey, 2013, Checklist for the Review of Engineering Geology and Seismology Reports for California Public Schools, Hospitals, and Essential Services Buildings, Note 48, October 2013.

California Geological Survey, 2011, Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurences of Asbestos in California, Map 59.

California Geological Survey, 2010, Fault Activity Map of California, Geologic Data Map No. 6.

California Geological Survey, 2005, Radon Potential Zone Map for Southern Los Angeles County, California.

City of Los Angeles and Los Angeles Department of Water and Power, 2004, LADBS Methane and Methane Buffer Zone Map, March 3, 2004.

City of Los Angeles, 1996, Safety Element of the Los Angeles City General Plan, Department of Planning, Los Angeles, California, Adopted November 26, 1996.

Conrad, C.L. and Ehlig, P.L., 1987, The Monterey Formation of the Palos Verdes Peninsula, California - An example of sedimentation in a tectonically active basin within the California continental borderland: *in* Fischer, F.J. (ed.), Geology of the Palos Verdes Peninsula and San Pedro Bay: Pacific Section of the Society of Economic Paleontologists and Mineralogists, Guidebook 55, p. 17-30.

Dawson, T., and Weldon, R., 2012, UCERF 3 Appendix B: Geologic slip-rate data and geologic deformation model (Draft version dated July 9, 2012): http://wgcep.org/sites/wgcep.org/files/AppendixB_GeologicDeformationModel_20120709.pdf

Dibblee, T.W. Jr., 1999, Geologic map of the Palos Verdes Peninsula and vicinity, Redondo Beach, Torrance, and San Pedro Quadrangles, Los Angeles County, California, Dibblee Geological Foundation, Camarillo, CA.

Dolan, J.F., Sieh, K., and Rockwell, T.K., 2000, Late Quaternary activity and seismic potential of the Santa Monica fault system, Los Angeles, California, Geol. Soc. Am. Bull., 112, 1559-1581.

Group Delta Consultants, Inc., "Comprehensive Geotechnical Report, Renovation of Classroom Building #2, San Pedro High School, 1001 West 15th Street, Los Angeles, California," a report prepared for Los Angeles Unified School District, Group Delta Project No. LA-1204, July 28, 2014.

Group Delta Consultants, Inc., "Geotechnical Engineering Report, Stability Evaluation, Middle and Upper Slopes, Dana Middle School, 1501 S. Cabrillo Avenue, San Pedro, California," a report prepared for Los Angeles Unified School District, Group Delta Project No. L-958, June24, 2011.

Group Delta Consultants, Inc., "Geotechnical Investigation, Pavement Design and Infiltration Assessment, San Pedro High School, 1001 W 15th Street, San Pedro, California," a report prepared for Los Angeles Unified School District, Group Delta Project No. LA-1172, December 16, 2013.

Group Delta Consultants, Inc., "Foundation Investigation Report, Proposed 40-Foot Net Fence, San Pedro High School Baseball Field, 1001 W. 15th Street, Los Angeles, California," a report prepared for Los Angeles Unified School District, Group Delta Project No. L-646, September 29, 2005.

Group Delta Consultants, Inc., "Preliminary Geotechnical Report, Proposed Campus Improvement Project, San Pedro High School, 1001 West 15th Street, Los Angeles, California," a report prepared for Los Angeles Unified School District, Group Delta Project No. LA-1244, July 20, 2015.

Los Angeles Testing Laboratory Engineers – Chemists, 1936, Report on Sub-Surface Character and Load Bearing Properties of Soil, Proposed Auditorium and Physical Education Building, May 7, 1936.

LeRoy Crandall and Associates, 1969, Report of Foundation Investigation for Proposed Shop Building Addition, San Pedro High School, October 16, 1969.

MACTEC, 2005, Report of Geotechnical Investigation for Proposed Gymnasium Building, San Pedro High School, January 13, 2005.

Maurseth & Howe, 1961, Foundation Investigation Report for Proposed Classroom Building Addition, San Pedro High School, April 1961.

Maurseth & Howe, 1960, Foundation Investigation Report for Proposed Girl's Gymnasium Exercise Room, May 1960.

USGS Earthquake Hazards Program, Java Ground Motion Calculator (Version 5.1.0), http://earthquake.usgs.gov/hazards/designmaps/javacalc.php

# FIGURES

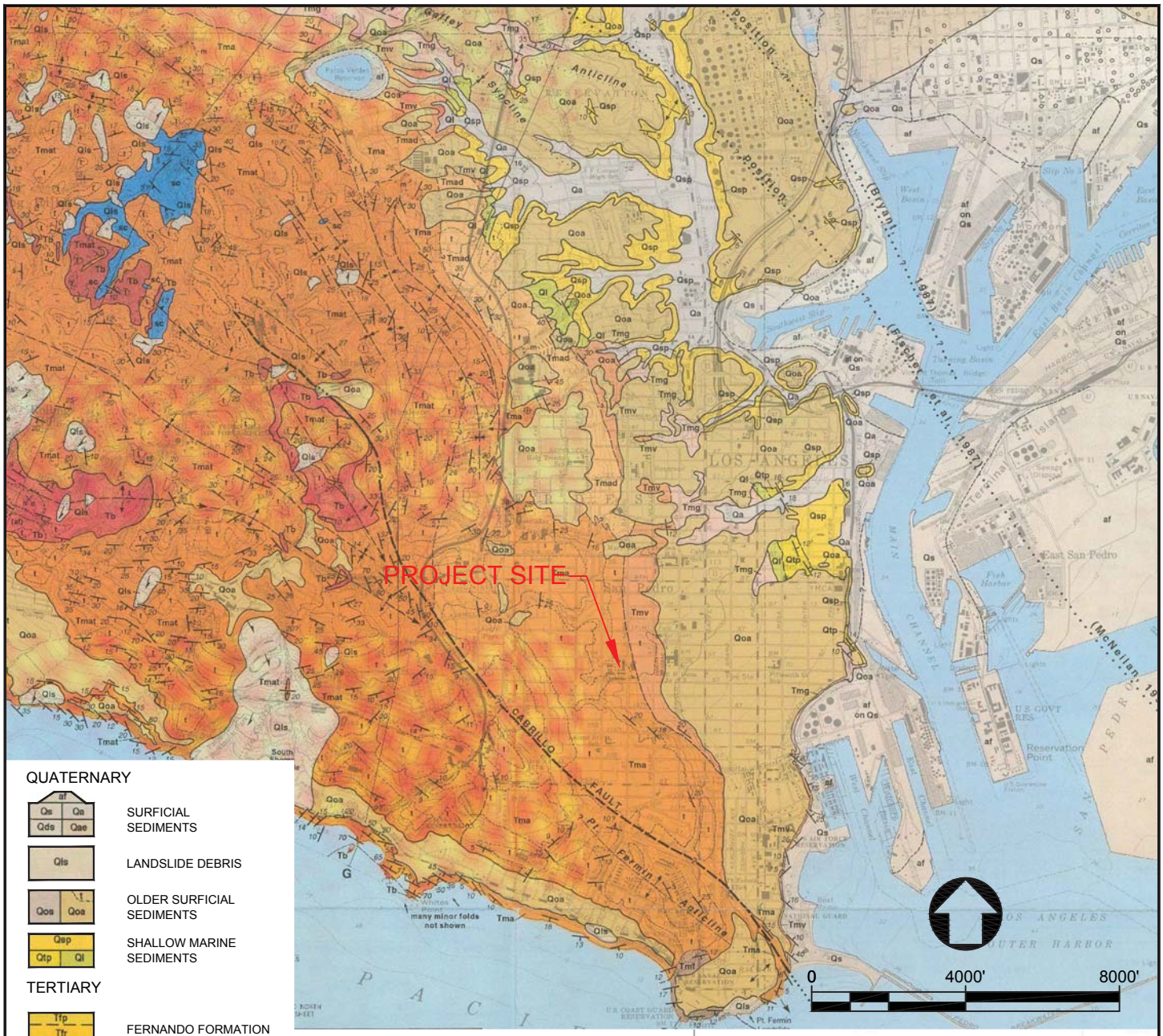



REFERENCE: TORRANCE AND SAN PEDRO QUADRANGLES
USGS 7.5 MINUTE TOPOGRAPHIC SERIES (2012)




| | | | | |
|---|---|---|---|---|
| DATE: 10/31/2016 | DRAWN BY: JMT | GROUP DELTA | GROUP DELTA CONSULTANTS, INC<br>370 Amapola Ave.<br>Suite 212<br>Torrance, CA. 90501 | PROJECT NUMBER: LA-1244A |
| REVIEW: 10/27/2016 MS | APPROVED BY: - | | PROJECT SITE AND VICINITY MAP<br>(N 33.73036°, W 118.30076°)<br>SAN PEDRO HIGH SCHOOL<br>1001 WEST 15TH ST. SAN PEDRO CA 90731 | SCALE: AS SHOWN |
| PREPARED BY: - | | | | FIGURE NUMBER: 1 |

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QUATERNARY

- SURFICIAL SEDIMENTS
- LANDSLIDE DEBRIS
- OLDER SURFICIAL SEDIMENTS
- SHALLOW MARINE SEDIMENTS

TERTIARY

- FERNANDO FORMATION
- MALAGA MUDSTONE
- MONTEREY FORMATION
- BASALT
- SAN ONOFRE BRECCIA

MESOZOIC

- CATALINA SCHIST

## MAP SYMBOLS

FORMATION CONTACT — dashed where inferred or indefinite

MEMBER CONTACT — between units of a formation

CONTACT BETWEEN SURFICIAL SEDIMENTS — located only approximately in places

FAULT: Dashed where indefinite or inferred, dotted where concealed, queried where existence is doubtful. Parallel arrows indicate inferred relative lateral movement. Relative vertical movement is shown by U/D (U=upthrown side, D=downthrown side). Short arrow indicates dip of fault plane. Sawteeth are on upper plate of low angle thrust fault.

FOLDS: ANTICLINE, SYNCLINE — arrow on axial trace of fold indicates direction of plunge; dotted where concealed by surficial sediments

STRIKE AND DIP OF STRATIFIED ROCKS: inclined, inclined (approximate), overturned, horizontal, vertical

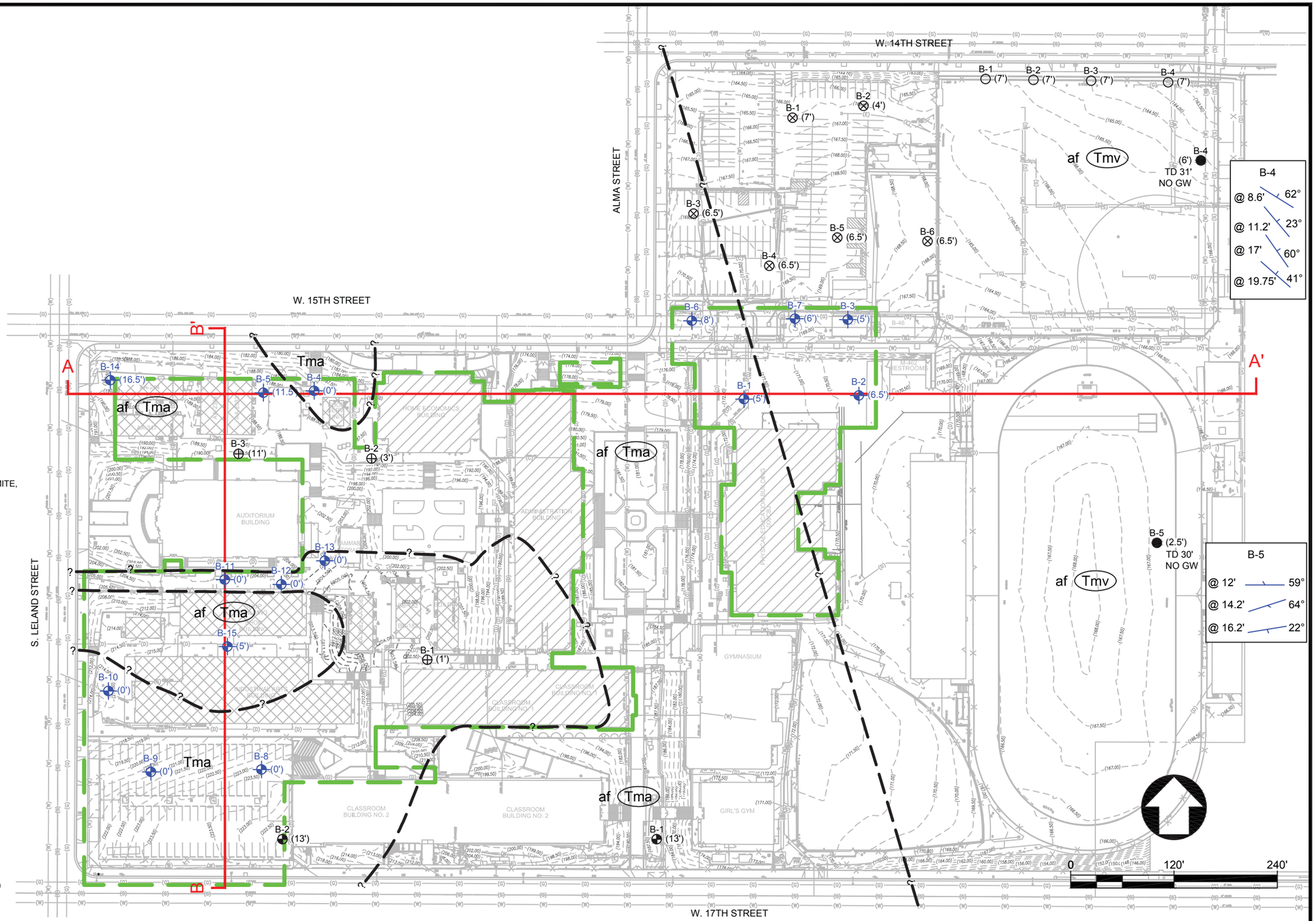
metamorphic or igneous rock foliation or flow banding: inclined, approximate, vertical

Outline of old lagoon; landslide & direction of landslide movement; Oil Well; Abandoned exploratory oil (or gas) well; Sandstone marker bed; Conglomerate marker bed

REFERENCE: DIBBLEE, 1999

| | | | | | |
|---|---|---|---|---|---|
| DATE: 10/31/2016 | DRAWN BY: JMT | GROUP DELTA | GROUP DELTA CONSULTANTS, INC<br>370 Amapola Ave.<br>Suite 212<br>Torrance, CA. 90501 | REGIONAL GEOLOGY MAP | PROJECT NUMBER: LA-1244A |
| REVIEW: 10/27/2016 MS | APPROVED BY: - | | | | SCALE: AS SHOWN |
| PREPARED BY: - | | | | SAN PEDRO HIGH SCHOOL<br>1001 WEST 15TH ST. SAN PEDRO CA 90731 | FIGURE NUMBER: 2 |

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## LEGEND

### UNITS:

| | |
|---|---|
| af | ARTIFICIAL FILL |
| Tmv | MONTEREY FORMATION - VALMONTE DIATOMITE, CIRCLED WHERE BURIED |
| Tma | MONTEREY FORMATION - ALTAMIRA SHALE, CIRCLED WHERE BURIED |

### SYMBOLS:

| | |
|---|---|
| 41° | STRIKE AND DIP |
| — ? — | GEOLOGIC CONTACT, QUERIED WHERE APPROXIMATED BASED ON BORINGS, HISTORICAL TOPOGRAPHY (USGS, 1925), AND REGIONAL GEOLOGIC MAP (DIBBLEE, 1999) |
| — — — | AREA OF PLANNED COMPREHENSIVE MODERNIZATION PROJECT |
| | BUILDINGS TO BE REMOVED |
| | BUILDINGS TO BE MODERNIZED |

### EXPLORATIONS:

PRIOR INVESTIGATIONS

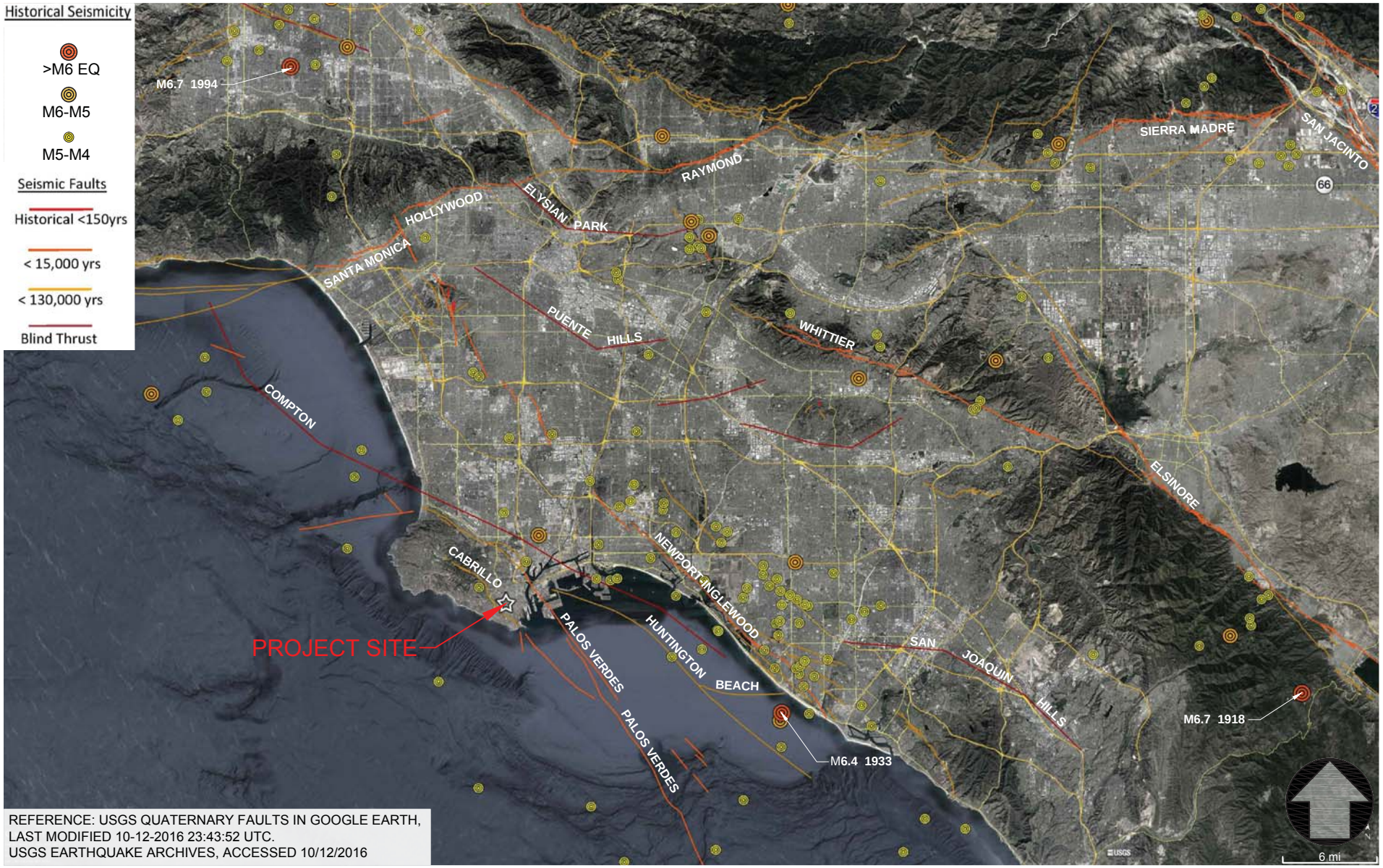
| | |
|---|---|
| B-1 (7') | LOCATION OF BORING (GDC, 2005), (DEPTH OF af) |
| B-4 (6') | LOCATION OF BORING (GDC, 2011), (DEPTH OF af) |
| B-1 (8') | LOCATION OF BORING (P.A. ARCA, 2013), (DEPTH OF af) |
| B-1 (13') | LOCATION OF BORING (GDC, 2014), (DEPTH OF af) |
| B-1 (11') | LOCATION OF BORING (GDC, 2015), (DEPTH OF af) |

CURRENT INVESTIGATION

| | |
|---|---|
| B-2 (16.5') | LOCATION OF BORING |
| A A' | LOCATION OF CROSS SECTION |

| | | | |
|---|---|---|---|
| DATE: 10/31/2016 | DRAWN BY: JMT | GROUP DELTA CONSULTANTS, INC<br>370 Amapola Ave.<br>Suite 212<br>Torrance, CA. 90501 | EXPLORATION LOCATION PLAN<br>SAN PEDRO HIGH SCHOOL<br>1001 WEST 15TH ST. SAN PEDRO CA 90731 |
| REVIEW: 10/27/2016 MS | APPROVED BY: - | | PROJECT NUMBER: LA-1244A<br>SCALE: AS SHOWN |
| PREPARED BY: - | | | FIGURE NUMBER: 3 |

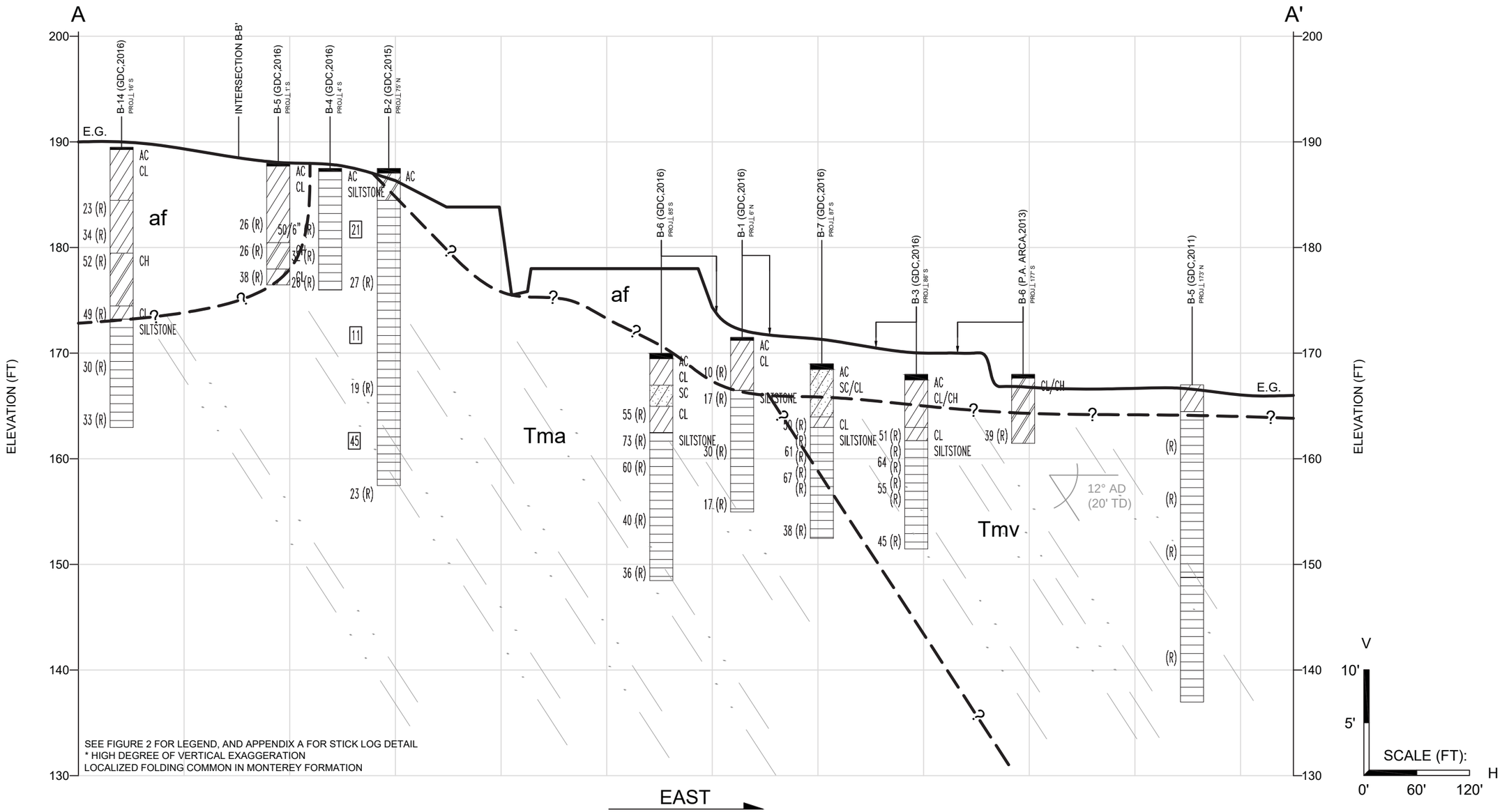
N:\Projects\1200-1299\LA-1244A LAUSD San Pedro HS Comprehensive Geotechnical Report\dwg\LA-1244A.dwg, 11/4/2016 6:57:34 AM, josemiguelt




REFERENCE: USGS QUATERNARY FAULTS IN GOOGLE EARTH, LAST MODIFIED 10-12-2016 23:43:52 UTC.
USGS EARTHQUAKE ARCHIVES, ACCESSED 10/12/2016

| | | | | | |
|---|---|---|---|---|---|
| DATE: 10/31/2016 | DRAWN BY: JMT | GROUP DELTA | GROUP DELTA CONSULTANTS, INC<br>370 Amapola Ave.<br>Suite 212<br>Torrance, CA. 90501 | FAULT AND SEISMICITY MAP | PROJECT NUMBER: LA-1244A |
| REVIEW: 10/27/2016 MS | APPROVED BY: - | | | | SCALE: AS SHOWN |
| PREPARED BY: - | | | | SAN PEDRO HIGH SCHOOL<br>1001 WEST 15TH ST. SAN PEDRO CA 90731 | FIGURE NUMBER: 4 |

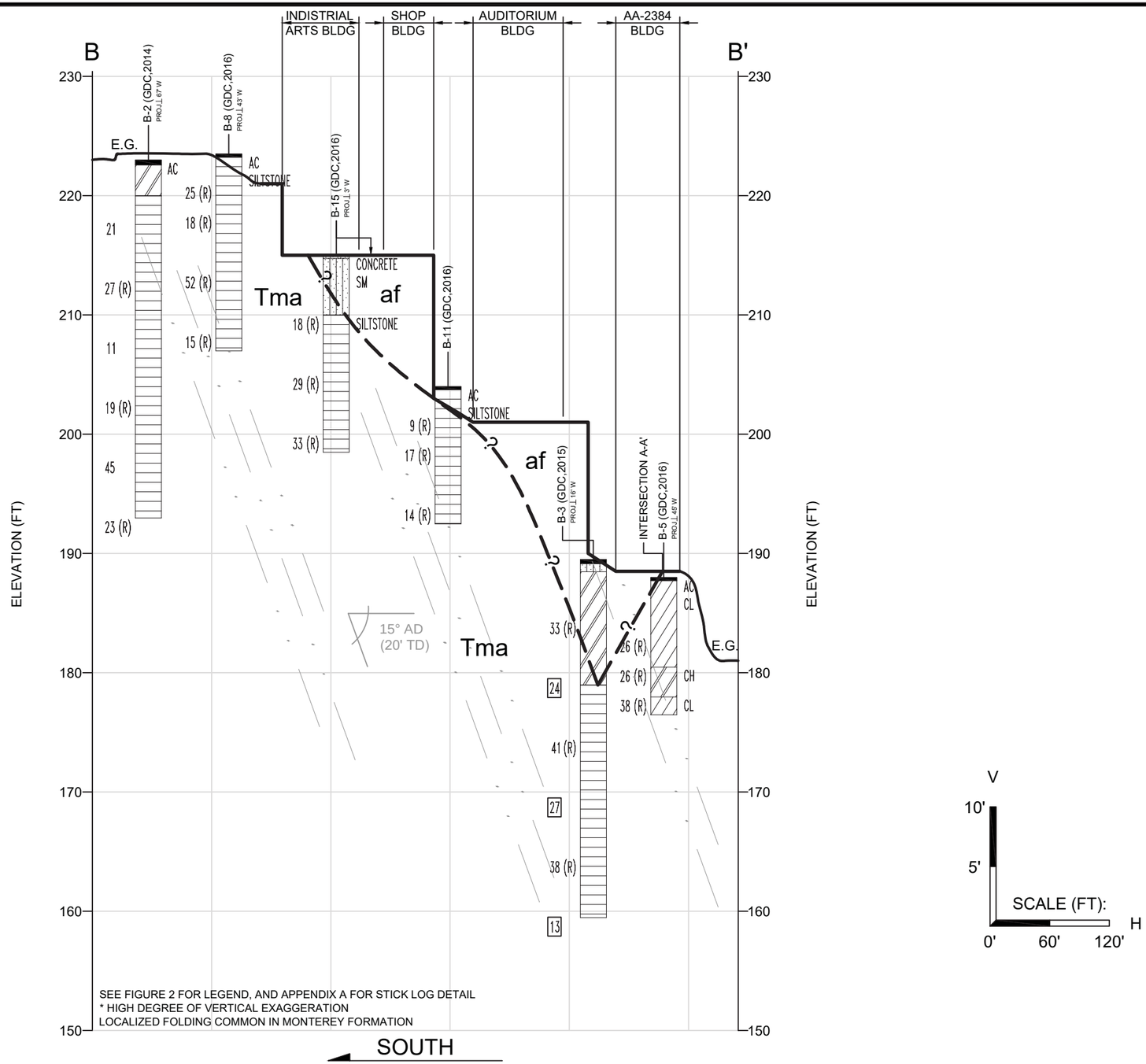
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SEE FIGURE 2 FOR LEGEND, AND APPENDIX A FOR STICK LOG DETAIL
* HIGH DEGREE OF VERTICAL EXAGGERATION
LOCALIZED FOLDING COMMON IN MONTEREY FORMATION

| | | | |
|---|---|---|---|
| DATE: 10/31/2016 | DRAWN BY: JMT | GROUP DELTA CONSULTANTS, INC<br>370 Amapola Ave.<br>Suite 212<br>Torrance, CA. 90501 | GEOLOGIC CROSS SECTION A-A' |
| REVIEW: 10/27/2016 MS | APPROVED BY: - | | SAN PEDRO HIGH SCHOOL<br>1001 WEST 15TH ST. SAN PEDRO CA 90731 |
| PREPARED BY: - | | | PROJECT NUMBER: LA-1244A<br>SCALE: AS SHOWN<br>FIGURE NUMBER: 5A |

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| | | | | | |
|---|---|---|---|---|---|
| DATE: 10/31/2016 | DRAWN BY: JMT | GROUP DELTA | GROUP DELTA CONSULTANTS, INC<br>370 Amapola Ave.<br>Suite 212<br>Torrance, CA. 90501 | GEOLOGIC CROSS SECTION B-B' | PROJECT NUMBER: LA-1244A |
| REVIEW: 10/27/2016 MS | APPROVED BY: - | | | | SCALE: AS SHOWN |
| PREPARED BY: - | | | | SAN PEDRO HIGH SCHOOL<br>1001 WEST 15TH ST. SAN PEDRO CA 90731 | FIGURE NUMBER: 5B |

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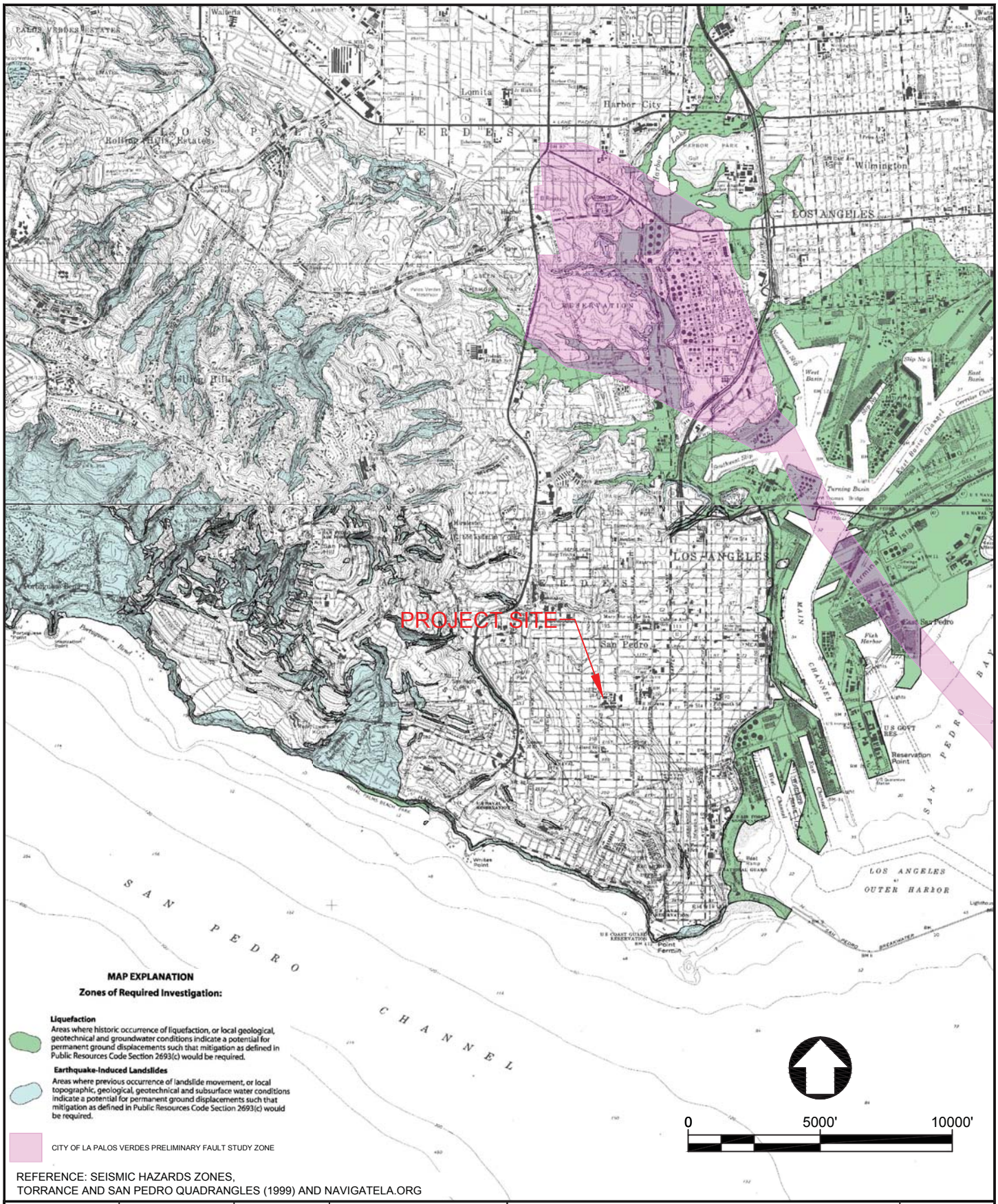

● Borehole Site — 30 — Depth to ground water in feet

X Site of historical earthquake–generated liquefaction.

*Reference: Seismic Hazard Zone Report, 1998, San Pedro 7.5 Minute Quadrangle, Department of Conservation, Division of Mines and Geology*

*Approximate Scale 1" = 1 Mile*

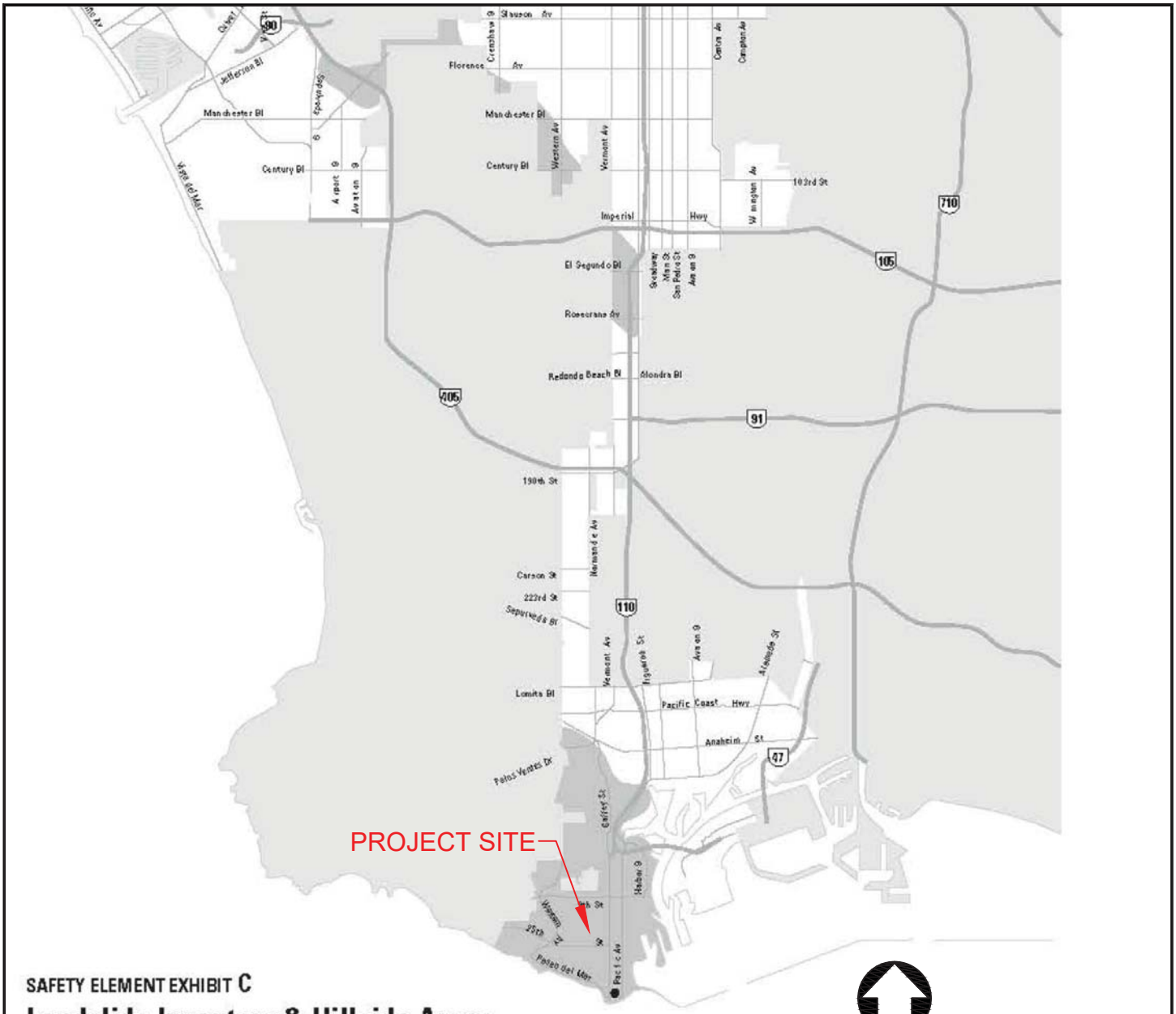
| | | |
|---|---|---|
| GROUP DELTA | Historic High Groundwater Map | Project Number: LA-1244A |
| | | Date: 11/2/2016 |
| Group Delta Consultants, Inc.<br>370 Amapola Ave., Suite 212<br>Torrance, CA 90501 | LAUSD – San Pedro High School<br>1001 W. 15th Street, San Pedro, CA | Figure 6 |




REFERENCE: SEISMIC HAZARDS ZONES,
TORRANCE AND SAN PEDRO QUADRANGLES (1999) AND NAVIGATELA.ORG

| | | | | | |
|---|---|---|---|---|---|
| DATE: 10/31/2016 | DRAWN BY: JMT | GROUP DELTA | GROUP DELTA CONSULTANTS, INC<br>370 Amapola Ave.<br>Suite 212<br>Torrance, CA. 90501 | EARTHQUAKE ZONES OF REQUIRED INVESTIGATION MAP<br>SAN PEDRO HIGH SCHOOL<br>1001 WEST 15TH ST. SAN PEDRO CA 90731 | PROJECT NUMBER: LA-1244A |
| REVIEW: 10/27/2016 MS | APPROVED BY: - | | | | SCALE: AS SHOWN |
| PREPARED BY: - | | | | | FIGURE NUMBER: 7 |

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SAFETY ELEMENT EXHIBIT C

## Landslide Inventory & Hillside Areas
### In the City of Los Angeles

- 5 - 100 Acre Bedrock Landslide Site
- 5 - 100 Acre Probable Bedrock Landslide Site
- Bedrock Landslide Area Greater Than 100 Acres
- Probable Bedrock Landslide Area Greater Than 100 Acres
- Undifferentiated Shallow Surfacal Landslide
- Cluster of Small Shallow Surfacal Landslides
- Approximate Location of Hillside Areas

REFERENCE: SAFETY ELEMENT EXHIBIT C, LANDSLIDE INVENTORY & HILLSIDE AREAS, 1994, CITY OF LOS ANGELES PLANNING DEPARTMENT

| | | | | | |
|---|---|---|---|---|---|
| DATE: 10/31/2016 | DRAWN BY: JMT | GROUP DELTA | GROUP DELTA CONSULTANTS, INC<br>370 Amapola Ave.<br>Suite 212<br>Torrance, CA. 90501 | LANDSLIDE INVENTORY & HILLSIDE AREAS MAP | PROJECT NUMBER: LA-1244A |
| REVIEW: 10/27/2016 MS | APPROVED BY: - | | | | SCALE: AS SHOWN |
| PREPARED BY: - | | | | SAN PEDRO HIGH SCHOOL<br>1001 WEST 15TH ST. SAN PEDRO CA 90731 | FIGURE NUMBER: 8 |

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## RADON ZONE DEFINITIONS

- High Potential For Indoor Radon Levels Above Four Picocuries Per Liter**
- Moderate Potential For Indoor Radon Levels Above Four Picocuries Per Liter**
- Low Potential For Indoor Radon Levels Above Four Picocuries Per Liter**
- Unknown Potential For Indoor Radon Levels Above Four Picocuries Per Liter**

** The U.S. Environmental Protection Agency (EPA) recommends four picocuries per liter as the action level for radon reduction.

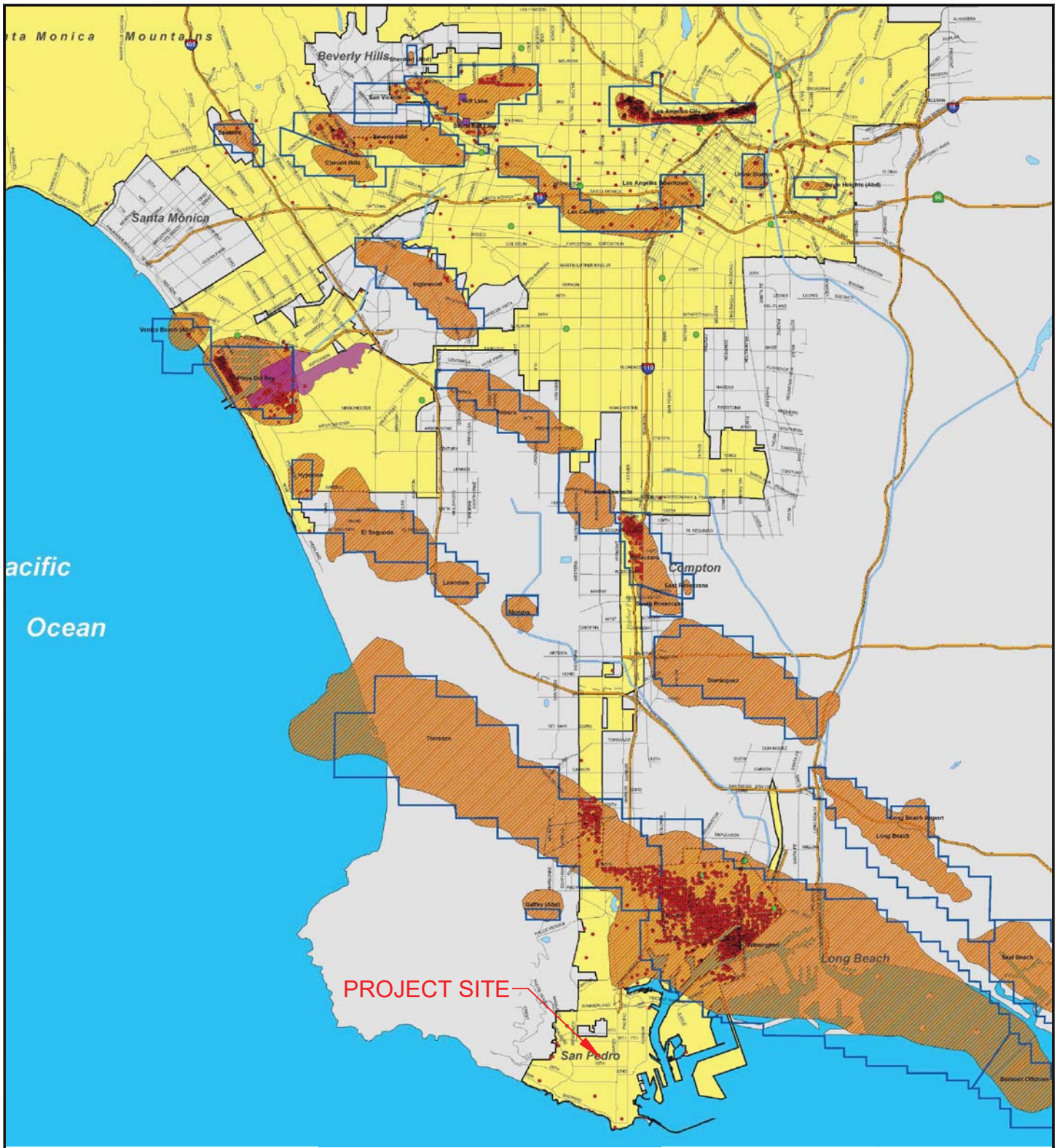
## BASE MAP LAYERS

- Interstate Route
- State Route
- Secondary Route/ Street
- City Boundary
- Stream
- Ocean or Lake

REFERENCE: CGS: RADON POTENTIAL MAP, 2012, RONALD K. CHURCHILL, PH.D, P.G

| | | | | | |
|---|---|---|---|---|---|
| DATE: 10/31/2016 | DRAWN BY: JMT | GROUP DELTA | GROUP DELTA CONSULTANTS, INC<br>370 Amapola Ave.<br>Suite 212<br>Torrance, CA. 90501 | RADON POTENTIAL ZONE MAP | PROJECT NUMBER: LA-1244A |
| REVIEW: 10/27/2016 MS | APPROVED BY: - | | | | SCALE: AS SHOWN |
| PREPARED BY: - | | | | SAN PEDRO HIGH SCHOOL<br>1001 WEST 15TH ST. SAN PEDRO CA 90731 | FIGURE NUMBER: 9 |

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ANTONIO R. VILLARAIGOSA
MAYOR

- Oil Well
- Landfill Site
- Other Known Methane Gas Source
- Administrative Boundary of Oil Field
- Productive Boundary of Oil Field

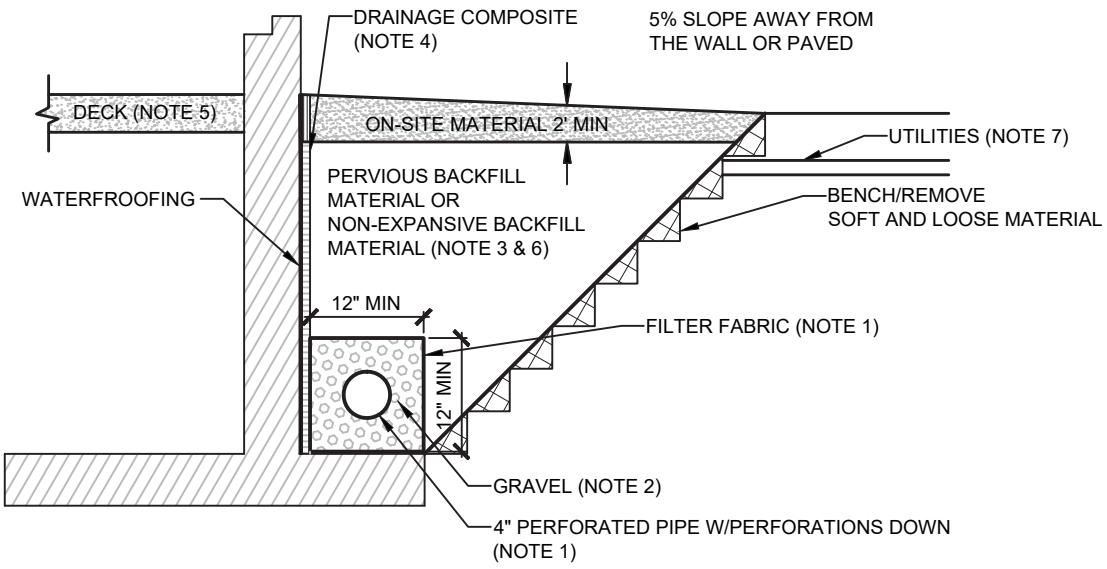
0 0.2 0.4 0.8 1.2 1.6 2 2.4 2.8 Miles

LA DPW ENGINEERING
Serving the Present; Designing the Future
GARY LEE MOORE, P.E.
CITY ENGINEER

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| | | | | | |
|---|---|---|---|---|---|
| DATE: 10/31/2016 | DRAWN BY: JMT | GROUP DELTA | GROUP DELTA CONSULTANTS, INC<br>370 Amapola Ave.<br>Suite 212<br>Torrance, CA. 90501 | METHANE BUFFER ZONE MAP | PROJECT NUMBER: LA-1244A |
| REVIEW: 10/27/2016 MS | APPROVED BY: - | | | | SCALE: AS SHOWN |
| PREPARED BY: - | | | | SAN PEDRO HIGH SCHOOL<br>1001 WEST 15TH ST. SAN PEDRO CA 90731 | FIGURE NUMBER: 10 |

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NOTES:

1) PERFORATED PIPE SHOULD BE AN ASTM STANDARD ACRYLONITRILE BUTADIENE STYRENE (ABS), POLYVINYL CHORIDE (PVC), OR POLYETHYLENE (PE) WITH A 0.25% SLOPE FOR DRAINAGE AND WRAPPED WITH FILTER FABRIC (MIRAFI 140 OR EQUIVALENT).

2) GRAVEL - 3/8" OR 3/4" GRAVEL

3) IF NO DRAINAGE COMPOSITE IS USED, PERVIOUS BACKFILL MATERIAL SHOULD BE USED ABOVE THE GRAVEL ZONE. PERVIOUS MATERIAL SHOULD BE MEET PUBLIC WORKS STANDARD (GREENBOOK 2000, 3.0.0-3.5.2) AS FOLLOWS:

100% PASSING 3/4"
80-100% PASING 3/8"
0-8% PASSING - 100 SIEVE
0-3% PASSING - 200 SIEVE

4) IF A DRAINAGE COMPOSITE IS USED, NON EXPANSIVE BACKFILL MATERIAL MAY BE USED ABOVE THE GRAVEL ZONE. DRAINAGE COMPOSITE MATERIAL SHOULD BE MIRADRAIN 6000 MATERIAL OR EQUIVALENT. BACKFILL SHOULD HAVE AN E<30 AND CONFORM TO GROUP DELTA GRADING AND BACKFILL RECOMMENDATIONS.

5) IF THE WALL IS SUPPORTED BY THE DECK, NO BACKFILL SHALL BE PLACE BEFORE THE DECK IS CONSTRUCTED AND THE STRUCTURAL ENGINEER'S APPROVAL IS GIVEN.

6) NO HEAVY EQUIPMENT OR COMPACTION EQUIPMENT SHOULD BE USED ABOVE THE PERFORATED PIPE, OR WITHIN 8 FEET OF THE WALL ONLY HAND COMPACTION EQUIPMENT SHOULD BE USED ABOVE ADJACENT TO THE WALL.

7) UTILITY LATERALS - REMOVE LOOSE MATERIAL AND HAND COMPACT BACKFILL OR USE 2-SACK SAND/CEMENT SLURRY.

| | | | | | |
|---|---|---|---|---|---|
| DATE: 10/31/2016 | DRAWN BY: JMT | GROUP DELTA | GROUP DELTA CONSULTANTS, INC<br>370 Amapola Ave.<br>Suite 212<br>Torrance, CA. 90501 | RETAINING WALL DETAILS | PROJECT NUMBER: LA-1244A |
| REVIEW: - | APPROVED BY: - | | | | SCALE: NOT TO SCALE |
| PREPARED BY: - | | | | SAN PEDRO HIGH SCHOOL<br>1001 WEST 15TH ST. SAN PEDRO CA 90731 | FIGURE NUMBER: 11 |

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# APPENDIX A
# FIELD INVESTIGATION

# APPENDIX A
# FIELD EXPLORATION

## A.1 INTRODUCTION

GDC conducted a geotechnical subsurface investigation for the site on September 24, 2016. The investigation consisted of fifteen hollow-stem auger soil borings. The exploration locations are shown in Figure 2 of the report. A summary of the field investigation is provided in Table A-1.

## A.2 SOIL BORINGS

Fifteen hollow-stem auger borings were drilled to depths ranging from about 10 to 25 feet. Subsurface materials were visually classified and recorded by a GDC field engineer in accordance with the Unified Soil Classification System (USCS).

Drive samples and bulk samples of the encountered materials were obtained from the borings and recorded on the boring logs. Drive samples were obtained with a California Sampler lined with 1-inch high metal sample rings. The California Sampler has an outside diameter of 3-inches, and the inside diameter of the rings is 2.42-inches. The samples were retained in brass rings and placed in sealed plastic canisters to prevent moisture loss. The California samplers were driven into the soil at the bottom of the borehole using a 140-pound hammer free-falling 30 inches. The penetration resistance (or "blowcount") in blows per six inches of driving was recorded on the logs. In addition, fourteen representative bulk samples were taken within the upper 1 to 5 feet of each boring. Bulk samples were placed into polyethylene bags.

A key for soil classification and a legend for the logs of test borings are presented in Figures A-1a and A-1b. The boring logs are attached at the end of this Appendix.

## A.3 LIST OF THE ATTACHED TABLE AND FIGURES

The following table and figures are attached and complete this appendix:

| | |
|---|---|
| Table A-1 | Field Exploration Summary |
| Figure A-1a | Key for Soil Classification |
| Figure A-1b | Boring Record Legend |
| Figures A-2 to A-16 | Boring Logs |

**Table A-1 – Field Exploration Summary**

| Exploration No. | Date Performed | Ground Surface Elevation (feet, MSL) | Total Depth (ft) | Exploration Type |
|---|---|---|---|---|
| B-1 | 9/24/2016 | 171.8 | 16.5 | Hollow Stem Auger |
| B-2 | 9/24/2016 | 170.5 | 21.5 | Hollow Stem Auger |
| B-3 | 9/24/2016 | 168.3 | 16.5 | Hollow Stem Auger |
| B-4 | 9/24/2016 | 187.6 | 11.5 | Hollow Stem Auger |
| B-5 | 9/24/2016 | 188.1 | 11.5 | Hollow Stem Auger |
| B-6 | 9/24/2016 | 170.6 | 21.5 | Hollow Stem Auger |
| B-7 | 9/24/2016 | 169.0 | 16.5 | Hollow Stem Auger |
| B-8 | 9/24/2016 | 223.3 | 16.5 | Hollow Stem Auger |
| B-9 | 9/24/2016 | 220.8 | 16.5 | Hollow Stem Auger |
| B-10 | 9/24/2016 | 214.5 | 11.5 | Hollow Stem Auger |
| B-11 | 9/24/2016 | 204.2 | 11.5 | Hollow Stem Auger |
| B-12 | 9/24/2016 | 204.3 | 11.5 | Hollow Stem Auger |
| B-13 | 9/24/2016 | 203.8 | 11.5 | Hollow Stem Auger |
| B-14 | 9/24/2016 | 189.5 | 26.5 | Hollow Stem Auger |
| B-15 | 9/24/2016 | 215.0 | 16.5 | Hollow Stem Auger |

# KEY FOR SOIL CLASSIFICATION

## UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D-2487)

| PRIMARY DIVISIONS | | | GROUP SYMBOL | SECONDARY DIVISIONS |
|---|---|---|---|---|
| COARSE GRAINED SOILS (less than 50% fines passing the No. 200 Sieve) | GRAVEL (% GRAVEL > % SAND) | CLEAN GRAVEL (Less than 5% fines) | GW | Well-graded gravel, gravel with sand, little or no fines |
| | | | GP | Poorly-graded gravel, gravel with sand, little or no fines |
| | | "DIRTY" GRAVEL (More than 12% fines) | GM | Silty gravel, silty gravel with sand, silty or non-plastic fines |
| | | | GC | Clayey gravel, clayey gravel with sand, clayey or plastic fines |
| | SAND (% SAND ≥ % GRAVEL) | CLEAN SAND (Less than 5% fines) | SW | Well-graded sand, sand with gravel, little or no fines |
| | | | SP | Poorly-graded sand, sand with gravel, little or no fines |
| | | "DIRTY" SAND (More than 12% fines) | SM | Silty sand, silty sand with gravel, silty or non-plastic fines |
| | | | SC | Clayey sand, clayey sand with gravel, clayey or plastic fines |
| FINE GRAINED SOILS (50% or more fines passing the No. 200 Sieve) | SILTS AND CLAYS (Liquid Limit less than 50) | | ML | Inorganic silt, sandy silt, gravelly silt, or clayey silt with low plasticity |
| | | | CL | Inorganic clay of low to medium plasticity, sandy clay, gravelly clay, silty clay, Lean Clay |
| | | | OL | Low to medium plasticity Silt or Clay with significant organic content (vegetative matter) |
| | SILTS AND CLAYS (Liquid Limit 50 or more) | | MH | Inorganic elastic silt, sandy silt, gravelly silt, or clayey silt of medium to high plasticity |
| | | | CH | Inorganic clay of high plasticity, Fat Clay |
| | | | OH | Medium to high plasticity Silt or Clay with significant organic content (vegetative matter) |
| HIGHLY ORGANIC SOILS | | | PT | Peat or other highly organic soils |

**Note:** Dual symbols are used for coarse grained soils with 5 to 12% fines (ex: SP-SM), and for soils with Atterberg Limits falling in the CL-ML band in the Plasticity Chart. Borderline classifications between groups may be indicated by two symbols separated by a slash (ex: CL/CH, SW/GW).

## CONSISTENCY CLASSIFICATION

| COARSE GRAINED SOILS | | FINE GRAINED SOILS | | |
|---|---|---|---|---|
| Blowcount SPT[1] (CAL)[2] | Consistency | Blowcount[3] SPT[1] (CAL)[2] | Consistency | Undrained Shear Strenth[3], $S_u$ (ksf) |
| 0-4 (0-6) | Very Loose | <2 (<3) | Very Soft | < 0.25 |
| | | 2-4 (3-6) | Soft | 0.25 -0.50 |
| 5-10 (7-15) | Loose | 5-8 (7-12) | Firm | 0.50 - 1.0 |
| 11-30 (16-45) | Med. Dense | 9-15 (13-22) | Stiff | 1.0 - 2 |
| 31-50 (46-75) | Dense | 16-30 (23-45) | Very Stiff | 2.0 - 4.0 |
| >50 (>75) | Very Dense | >31 (>45) | Hard | >4.0 |

## MOISTURE CLASSIFICATION

**DRY -** Absence of moisture, dusty, dry to the touch
**MOIST-** Damp but no visible water
**WET-** Visible free water, usually soil is below water table

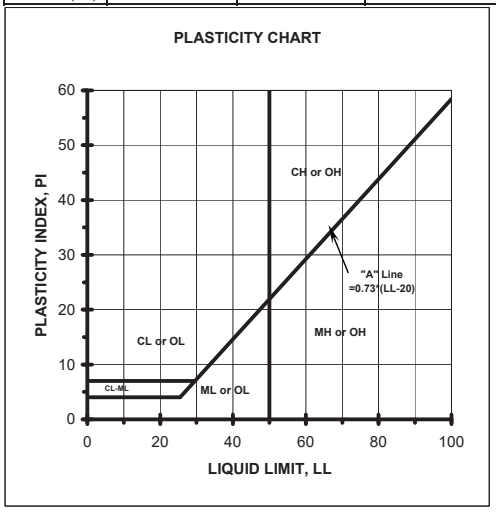
**CONSISTENCY NOTES:**

1. Number of blows of a 140-lb. hammer falling 30-inches to drive a 2-inch OD (1.375-inch ID) **SPT Sampler** [ASTM D-1585] the final 12-inches of driving
2. Number of blows of a 140-lb. hammer falling 30-inches to drive a 3-inch OD (2.42-inch ID) **California Ring Sampler** the final 12-inches of driving.
3. Undrained shear strength of cohesive soils predicted from field blowcounts is generally unreliable. Where possible, consistency should be based on $S_u$ data from pocket penetrometer, torvane, or laboratory testing.

## CLASSIFICATION CRITERIA BASED ON LABORATORY TESTS

***Grain Size Classification***

| CLAY AND SILT | SAND | | | GRAVEL | | COBBLES | | BOULDERS | |
|---|---|---|---|---|---|---|---|---|---|
| | Fine | Medium | Coarse | Fine | Coarse | | | | |
| **US Std Sieve** | **No. 200** | **No. 40** | **No. 10** | **No. 4** | **3/4"** | **3"** | | **12"** | | |
| *Grain Size (mm)* | 0.075 | 0.425 | 2 | 4.75 | 19.1 | 76.2 | | 304.8 | | |




*Classification of earth materials shown on the logs is based on field inspection and should not be construed to imply laboratory analysis unless so stated.*

**Granular Soil Gradation Parameters**

Coefficient of Uniformity: $C_u = D_{60} / D_{10}$

Coefficient of Curvature: $C_C = (D_{30})^2 / (D_{10} \times D_{60})$

$D_{10}$= 10% of the soil is finer than this diameter

$D_{30}$= 30% of the soil is finer than this diameter

$D_{30}$= 60% of the soil is finer than this diameter

| Group Symbol | Gradation or Plasticity Requirement |
|---|---|
| SW | $C_u$>6 and $C_c$ between 1 and 3 |
| GW | $C_u$>4 and $C_c$ between 1 and 3 |
| GP or SP | Clean gravel or sand not meeting requirement for GW or SW |
| GM or SM | Plots below "A" Line on Plasticity Chart or PI < 4 |
| GC or SC | Plots above "A" Line on Plasticity Chart and PI > 7 |

**FIGURE A-1a**

## GROUP SYMBOLS AND NAMES

| Graphic / Symbol | Group Names |
|---|---|
| GW | Well-graded GRAVEL<br>Well-graded GRAVEL with SAND |
| GP | Poorly graded GRAVEL<br>Poorly graded GRAVEL with SAND |
| GW-GM | Well-graded GRAVEL with SILT<br>Well-graded GRAVEL with SILT and SAND |
| GW-GC | Well-graded GRAVEL with CLAY (or SILTY CLAY)<br>Well-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND) |
| GP-GM | Poorly graded GRAVEL with SILT<br>Poorly graded GRAVEL with SILT and SAND |
| GP-GC | Poorly graded GRAVEL with CLAY (or SILTY CLAY)<br>Poorly graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND) |
| GM | SILTY GRAVEL<br>SILTY GRAVEL with SAND |
| GC | CLAYEY GRAVEL<br>CLAYEY GRAVEL with SAND |
| GC-GM | SILTY, CLAYEY GRAVEL<br>SILTY, CLAYEY GRAVEL with SAND |
| SW | Well-graded SAND<br>Well-graded SAND with GRAVEL |
| SP | Poorly graded SAND<br>Poorly graded SAND with GRAVEL |
| SW-SM | Well-graded SAND with SILT<br>Well-graded SAND with SILT and GRAVEL |
| SW-SC | Well-graded SAND with CLAY (or SILTY CLAY)<br>Well-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL) |
| SP-SM | Poorly graded SAND with SILT<br>Poorly graded SAND with SILT and GRAVEL |
| SP-SC | Poorly graded SAND with CLAY (or SILTY CLAY)<br>Poorly graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL) |
| SM | SILTY SAND<br>SILTY SAND with GRAVEL |
| SC | CLAYEY SAND<br>CLAYEY SAND with GRAVEL |
| SC-SM | SILTY, CLAYEY SAND<br>SILTY, CLAYEY SAND with GRAVEL |
| PT | PEAT |
| | COBBLES<br>COBBLES and BOULDERS<br>BOULDERS |

| Graphic / Symbol | Group Names |
|---|---|
| CL | Lean CLAY<br>Lean CLAY with SAND<br>Lean CLAY with GRAVEL<br>SANDY lean CLAY<br>SANDY lean CLAY with GRAVEL<br>GRAVELLY lean CLAY<br>GRAVELLY lean CLAY with SAND |
| CL-ML | SILTY CLAY<br>SILTY CLAY with SAND<br>SILTY CLAY with GRAVEL<br>SANDY SILTY CLAY<br>SANDY SILTY CLAY with GRAVEL<br>GRAVELLY SILTY CLAY<br>GRAVELLY SILTY CLAY with SAND |
| ML | SILT<br>SILT with SAND<br>SILT with GRAVEL<br>SANDY SILT<br>SANDY SILT with GRAVEL<br>GRAVELLY SILT<br>GRAVELLY SILT with SAND |
| OL | ORGANIC lean CLAY<br>ORGANIC lean CLAY with SAND<br>ORGANIC lean CLAY with GRAVEL<br>SANDY ORGANIC lean CLAY<br>SANDY ORGANIC lean CLAY with GRAVEL<br>GRAVELLY ORGANIC lean CLAY<br>GRAVELLY ORGANIC lean CLAY with SAND |
| OL | ORGANIC SILT<br>ORGANIC SILT with SAND<br>ORGANIC SILT with GRAVEL<br>SANDY ORGANIC SILT<br>SANDY ORGANIC SILT with GRAVEL<br>GRAVELLY ORGANIC SILT<br>GRAVELLY ORGANIC SILT with SAND |
| CH | Fat CLAY<br>Fat CLAY with SAND<br>Fat CLAY with GRAVEL<br>SANDY fat CLAY<br>SANDY fat CLAY with GRAVEL<br>GRAVELLY fat CLAY<br>GRAVELLY fat CLAY with SAND |
| MH | Elastic SILT<br>Elastic SILT with SAND<br>Elastic SILT with GRAVEL<br>SANDY elastic SILT<br>SANDY elastic SILT with GRAVEL<br>GRAVELLY elastic SILT<br>GRAVELLY elastic SILT with SAND |
| OH | ORGANIC fat CLAY<br>ORGANIC fat CLAY with SAND<br>ORGANIC fat CLAY with GRAVEL<br>SANDY ORGANIC fat CLAY<br>SANDY ORGANIC fat CLAY with GRAVEL<br>GRAVELLY ORGANIC fat CLAY<br>GRAVELLY ORGANIC fat CLAY with SAND |
| OH | ORGANIC elastic SILT<br>ORGANIC elastic SILT with SAND<br>ORGANIC elastic SILT with GRAVEL<br>SANDY elastic ELASTIC SILT<br>SANDY ORGANIC elastic SILT with GRAVEL<br>GRAVELLY ORGANIC elastic SILT<br>GRAVELLY ORGANIC elastic SILT with SAND |
| OL/OH | ORGANIC SOIL<br>ORGANIC SOIL with SAND<br>ORGANIC SOIL with GRAVEL<br>SANDY ORGANIC SOIL<br>SANDY ORGANIC SOIL with GRAVEL<br>GRAVELLY ORGANIC SOIL<br>GRAVELLY ORGANIC SOIL with SAND |

## FIELD AND LABORATORY TESTS

| | |
|---|---|
| **C** | Consolidation (ASTM D 2435-04) |
| **CL** | Collapse Potential (ASTM D 5333-03) |
| **CP** | Compaction Curve (CTM 216 - 06) |
| **CR** | Corrosion, Sulfates, Chlorides (CTM 643 - 99; CTM 417 - 06; CTM 422 - 06) |
| **CU** | Consolidated Undrained Triaxial (ASTM D 4767-02) |
| **DS** | Direct Shear (ASTM D 3080-04) |
| **EI** | Expansion Index (ASTM D 4829-03) |
| **M** | Moisture Content (ASTM D 2216-05) |
| **OC** | Organic Content (ASTM D 2974-07) |
| **P** | Permeability (CTM 220 - 05) |
| **PA** | Particle Size Analysis (ASTM D 422-63 [2002]) |
| **PI** | Liquid Limit, Plastic Limit, Plasticity Index (AASHTO T 89-02, AASHTO T 90-00) |
| **PL** | Point Load Index (ASTM D 5731-05) |
| **PM** | Pressure Meter |
| **PP** | Pocket Penetrometer |
| **R** | R-Value (CTM 301 - 00) |
| **SE** | Sand Equivalent (CTM 217 - 99) |
| **SG** | Specific Gravity (AASHTO T 100-06) |
| **SL** | Shrinkage Limit (ASTM D 427-04) |
| **SW** | Swell Potential (ASTM D 4546-03) |
| **TV** | Pocket Torvane |
| **UC** | Unconfined Compression - Soil (ASTM D 2166-06)<br>Unconfined Compression - Rock (ASTM D 2938-95) |
| **UU** | Unconsolidated Undrained Triaxial (ASTM D 2850-03) |
| **UW** | Unit Weight (ASTM D 4767-04) |
| **VS** | Vane Shear (AASHTO T 223-96 [2004]) |

## SAMPLER GRAPHIC SYMBOLS

- Standard Penetration Test (SPT)
- Standard California Sampler
- Modified California Sampler
- Shelby Tube
- Piston Sampler
- NX Rock Core
- HQ Rock Core
- Bulk Sample
- Other (see remarks)

## DRILLING METHOD SYMBOLS

- Auger Drilling
- Rotary Drilling
- Dynamic Cone or Hand Driven
- Diamond Core

## WATER LEVEL SYMBOLS

- First Water Level Reading (during drilling)
- Static Water Level Reading (after drilling, date)

## DEFINITIONS FOR CHANGE IN MATERIAL

| Term | Definition | Symbol |
|---|---|---|
| Material Change | Change in material is observed in the sample or core, and the location of change can be accurately measured. | ——— |
| Estimated Material Change | Change in material cannot be accurately located because either the change is gradational or because of limitations in the drilling/sampling methods used. | - - - - - - - - |
| Soil/Rock Boundary | Material changes from soil characteristics to rock characteristics. | ~~~~~ |

*Ref.: Caltrans Soil and Rock Logging Classification, and Presentation Manual (2010)*

GROUP DELTA

**GROUP DELTA CONSULTANTS, INC.**
GEOTECHNICAL ENGINEERS AND GEOLOGISTS

FIGURE NUMBER **A-1B**

PROJECT NAME: San Pedro High School

PROJECT NUMBER: LA-1244A

# BORING RECORD LEGEND

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD San Pedro High School | LA1244A | **B-1** |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| 1001 West 15th St., San Pedro, CA | 9/24/2016 | 9/24/2016 | 1 of 1 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Cascade | CME 95 | Hollow Stem Auger | C. Woods | N. Briffa |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| 140 lbs./30 in. (Automatic) | 79% | 8 | 16.5 | 171.8 | ▽ NE / *NE* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| Modified California (2.42") | $N_{60}$* = 0.88$N_{MC}$ | AFTER DRILLING ▼ / *NE* |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | SPT $N^*_{60}$ | RECOVERY (%) | RQD (%) | MOISTURE (%) | DRY DENSITY (pcf) | ATTERBERG LIMITS (LL:PI) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | ASPHALT CONCRETE (3") |
| | 170 | | B-1 | | | | | | 23.5 | | | | | | **ARTIFICIAL FILL (af):** Lean CLAY (CL); dark brown; moist; few fine SAND; medium plasticity. |
| | | | R-2 | 4 4 6 | 10 | 9 | | | 29.0 | 79 | | | | | Very stiff; low plasticity; PP=3.5. |
| 5 | | | R-3 | 4 7 10 | 17 | 15 | | | 50.3 | 63 | | DS | | | **NATIVE:** SEDIMENTARY ROCK (SILTSTONE); fine-grained; thinly bedded; light brown; slightly weathered; very soft; diatomaceous. |
| | 165 | | | | | | | | | | | | | | |
| 10 | | | R-4 | 4 8 22 | 30 | 26 | | | | | | | | | PP=3.0. |
| | 160 | | | | | | | | | | | | | | |
| 15 | | | R-5 | 4 9 8 | 17 | 15 | | | | | | | | | |
| | 155 | | | | | | | | | | | | | | Total Depth: 16.5 feet<br>Groundwater not encountered during drilling.<br>Boring backfilled with native soil cuttings and topped wth cold patch. |
| 20 | | | | | | | | | | | | | | | |
| | 150 | | | | | | | | | | | | | | |

GDC_LOG_BORING_2016 LA1244A.GPJ GDC2013.GDT 11/2/16

GROUP DELTA CONSULTANTS
370 Amapola Ave, Suite 212
Torrance, CA 90501

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.

FIGURE
A-2

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD San Pedro High School | LA1244A | **B-2** |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| 1001 West 15th St., San Pedro, CA | 9/24/2016 | 9/24/2016 | 1 of 1 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Cascade | CME 95 | Hollow Stem Auger | C. Woods | N. Briffa |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| 140 lbs./30 in. (Automatic) | 79% | 8 | 21.5 | 223.3 | ▽ NE / *NE* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| Modified California (2.42") | $N_{60}$* = 0.88$N_{MC}$ | AFTER DRILLING ▼ / *NE* |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | SPT $N^*_{60}$ | RECOVERY (%) | RQD (%) | MOISTURE (%) | DRY DENSITY (pcf) | ATTERBERG LIMITS (LL:PI) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | B-1 | | | | | | 24.7 | | | | | | ASPHALT CONCRETE (3")<br>**ARTIFICIAL FILL (af):**<br>Lean CLAY (CL); dark brown; moist; few fine SAND; medium plasticity. |
| | 220 | | R-2 | 2<br>4<br>8 | 12 | 11 | | | | | | DS | | | Hard; PP=4.5. |
| 5 | | | R-3 | 5<br>11<br>22 | 33 | 29 | | | 33.9 | | | #200 | | | SANDY lean CLAY with GRAVEL (CL); hard; dark brown; moist; some fine SAND; little fine GRAVEL; low plasticity; PP>4.5.<br>49% fines; 35% SAND; 16% GRAVEL.<br>**NATIVE:**<br>SEDIMENTARY ROCK (SILTSTONE); fine-grained; very thinly bedded; yellowish brown; slightly weathered; soft; diatomaceous. |
| | 215 | | | | | | | | | | | | | | |
| 10 | | | R-4 | 4<br>9<br>11 | 20 | 18 | | | 154.4 | 28 | | C | | | |
| | 210 | | | | | | | | | | | | | | |
| 15 | | | R-5 | 50/5" | REF | REF | | | | | | | | | |
| | 205 | | | | | | | | | | | | | | |
| 20 | | | R-6 | 5<br>6<br>8 | 14 | 12 | | | 70.4 | 48 | | | | | Light brown; moderately weathered. |
| | 200 | | | | | | | | | | | | | | Total Depth: 21.5 feet<br>Groundwater not encountered during drilling.<br>Boring backfilled with native soil cuttings and topped wth cold patch. |

GDC_LOG_BORING_2016 LA1244A.GPJ GDC2013.GDT 11/2/16

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FIGURE
A-3

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD San Pedro High School | LA1244A | **B-3** |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| 1001 West 15th St., San Pedro, CA | 9/24/2016 | 9/24/2016 | 1 of 1 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Cascade | CME 85 LAR | Hollow Stem Auger | H. Lee | N. Briffa |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| 140 lbs./30 in. (Manual) | 79% | 8 | 16.5 | 220.8 | ▽ NE / *NE* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| Modified California (2.42") | $N_{60}$* = 0.88$N_{MC}$ | AFTER DRILLING ▼ / *NE* |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | SPT $N^*_{60}$ | RECOVERY (%) | RQD (%) | MOISTURE (%) | DRY DENSITY (pcf) | ATTERBERG LIMITS (LL:PI) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 220 | | | | | | | | | | | EI | | | ASPHALT CONCRETE (6")<br>**ARTIFICIAL FILL (af):**<br>Lean CLAY to fat CLAY (CL/CH) grading to SANDY lean CLAY (CL). Lean CLAY to fat CLAY (CL/CH); dark gray; moist; trace coarse SAND; medium to high plasticity. SANDY lean CLAY (CL); light brown; moist; little fine SAND; few medium SAND; medium plasticity. |
| 5 | 215 | | R-2-2<br>R-2-1 | 15<br>19<br>32 | 51 | 47 | | | 30.9 | 70 | | | | | SANDY lean CLAY (CL) thinly bedded with thin interbeds of fat CLAY (CH). SANDY lean CLAY (CL); light brown; moist; little fine SAND; few medium SAND; medium plasticity. Fat CLAY (CH); hard; black; moist; high plasticity; PP>4.5. |
| | | | R-3 | 19<br>26<br>38 | 64 | 59 | | | 78.6 | 52 | 75:12 | C | | | **NATIVE:**<br>SEDIMENTARY ROCK (SILTSTONE); fine-grained; thinly bedded; light brown; fresh; very soft; diatomaceous.<br>Light gray to reddish brown; PP>4.5. |
| 10 | 210 | | R-4 | 19<br>25<br>30 | 55 | 51 | | | | | | | | | Moderately weathered; PP>4.5. |
| 15 | 205 | | R-5 | 14<br>19<br>26 | 45 | 41 | | | | | | | | | Light brown to reddish brown; intensely weathered; PP>4.5. |
| 20 | 200 | | | | | | | | | | | | | | Total Depth: 16.5 feet<br>Groundwater not encountered during drilling.<br>Boring backfilled with native soil cuttings and topped wth cold patch. |

GDC_LOG_BORING_2016 LA1244A.GPJ GDC2013.GDT 11/2/16

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FIGURE
A-4

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD San Pedro High School | LA1244A | **B-4** |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| 1001 West 15th St., San Pedro, CA | 9/24/2016 | 9/24/2016 | 1 of 1 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Cascade | CME 85 LAR | Hollow Stem Auger | H. Lee | N. Briffa |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| 140 lbs./30 in. (Manual) | 82% | 8 | 11.5 | 214.5 | ▽ NE / *NE* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| Modified California (2.42") | $N_{60}$* = 0.92$N_{MC}$ | AFTER DRILLING ▼ / *NE* |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | SPT $N^*_{60}$ | RECOVERY (%) | RQD (%) | MOISTURE (%) | DRY DENSITY (pcf) | ATTERBERG LIMITS (LL:PI) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | ASPHALT CONCRETE (3") |
| | | | | | | | | | | | | | | | **NATIVE:** SEDIMENTARY ROCK (SILTSTONE); fine-grained; thinly bedded; light brown; slightly weathered; very soft; very friable; diatomaceous. |
| | | | B-1 | | | | | | 32.0 | | | CR | | | |
| | 210 | | | | | | | | | | | | | | |
| 5 | | | R-2 | 30<br>50/6" | 50/6" | 46/6" | | | | | | | | | Light grayish brown; PP=3.5. |
| | | | R-3 | 12<br>14<br>18 | 32 | 29 | | | | | | | | | PP>4.5 |
| | 205 | | | | | | | | | | | | | | |
| 10 | | | R-4 | 11<br>12<br>14 | 26 | 24 | | | 98.9 | 45 | | | | | PP=3.5. |
| | | | | | | | | | | | | | | | Total Depth: 11.5 feet<br>Groundwater not encountered during drilling.<br>Boring backfilled with native soil cuttings and topped wth cold patch. |
| | 200 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | |
| | 195 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | |
| | 190 | | | | | | | | | | | | | | |

GDC_LOG_BORING_2016 LA1244A.GPJ GDC2013.GDT 11/2/16

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FIGURE
A-5

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD San Pedro High School | LA1244A | **B-5** |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| 1001 West 15th St., San Pedro, CA | 9/24/2016 | 9/24/2016 | 1 of 1 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Cascade | CME 85 LAR | Hollow Stem Auger | H. Lee | N. Briffa |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| 140 lbs./30 in. (Manual) | 82% | 8 | 11.5 | 204.2 | ▽ NE / *NE* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| Modified California (2.42") | $N_{60}$* = 0.92$N_{MC}$ | ▼ / *NE* AFTER DRILLING |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | SPT $N^*_{60}$ | RECOVERY (%) | RQD (%) | MOISTURE (%) | DRY DENSITY (pcf) | ATTERBERG LIMITS (LL:PI) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | ASPHALT CONCRETE (3") |
| | | | | | | | | | | | | | | | **ARTIFICIAL FILL (af):** Lean CLAY (CL); light brown; dry to moist; few coarse GRAVEL; medium plasticity; cemented. |
| | 200 | | | | | | | | | | | | | | |
| 5 | | | R-1 | 9<br>12<br>14 | 26 | 24 | | | | | | | | | Hard; dark gray to light gray; moist; low plasticity; PP>4.5. |
| | | | R-2 | 9<br>11<br>15 | 26 | 24 | | | 24.5 | 88 | 65:38 | C | | | Fat CLAY (CH); hard; dark gray to black; moist; high plasticity; PP>4.5. |
| | 195 | | | | | | | | | | | | | | |
| 10 | | | R-3 | 14<br>16<br>22 | 38 | 35 | | | 22.9 | | | #200 | | | Lean CLAY (CL); hard; dark gray; moist; few fine SAND; trace coarse GRAVEL; trace oxidation; calcium carbonate; PP>4.5.<br>89% fines; 9% SAND; 2% GRAVEL. |
| | | | | | | | | | | | | | | | Total Depth: 11.5 feet<br>Groundwater not encountered during drilling.<br>Boring backfilled with native soil cuttings and topped wth cold patch. |
| | 190 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | |
| | 185 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | |
| | 180 | | | | | | | | | | | | | | |

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FIGURE
A-6

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD San Pedro High School | LA1244A | **B-6** |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| 1001 West 15th St., San Pedro, CA | 9/24/2016 | 9/24/2016 | 1 of 1 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Cascade | CME 85 LAR | Hollow Stem Auger | H. Lee | N. Briffa |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| 140 lbs./30 in. (Manual) | 82% | 8 | 21.5 | 204.3 | ▽ NE / *NE* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| Modified California (2.42") | $N_{60}$* = 0.92$N_{MC}$ | AFTER DRILLING ▼ / *NE* |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | SPT $N^*_{60}$ | RECOVERY (%) | RQD (%) | MOISTURE (%) | DRY DENSITY (pcf) | ATTERBERG LIMITS (LL:PI) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | ASPHALT CONCRETE (6") |
| | | | | | | | | | | | | | | | **ARTIFICIAL FILL (af):** Lean CLAY (CL); dark gray; moist; few coarse SAND; few fine GRAVEL; medium plasticity. |
| | | | B-1 | | | | | | 21.4 | | | CR | | | |
| | 200 | | | | | | | | | | | | | | CLAYEY SAND (SC); light brown; moist; mostly fine to coarse SAND; little fines; trace fine GRAVEL; low plasticity. |
| 5 | | | R-2 | 28<br>23<br>32 | 55 | 51 | | | 41.4 | 68 | | | | | Lean CLAY with SAND (CL); hard; light brown; moist; little medium to coarse SAND; trace fine GRAVEL; medium plasticity; PP>4.5. |
| | | | R-3 | 23<br>35<br>38 | 73 | 67 | | | | | | | | | **NATIVE:** SEDIMENTARY ROCK (SILTSTONE); fine-grained; very thinly bedded; light brown; slightly weathered; very soft; diatomaceous; PP>4.5. |
| | 195 | | | | | | | | | | | | | | |
| 10 | | | R-4 | 20<br>23<br>27 | 60 | 55 | | | | | | | | | Reddish brown; intensely weathered; PP>4.5. |
| | 190 | | | | | | | | | | | | | | |
| 15 | | | R-5 | 15<br>19<br>21 | 40 | 37 | | | 66.3 | 55 | | | | | Reddish brown to light brown; moderately weathered; PP=4.0. |
| | 185 | | | | | | | | | | | | | | |
| 20 | | | R-6 | 16<br>18<br>18 | 36 | 33 | | | | | | | | | Brown; slightly weathered; PP>4.5. |
| | 180 | | | | | | | | | | | | | | Total Depth: 21.5 feet<br>Groundwater not encountered during drilling.<br>Boring backfilled with native soil cuttings and topped wth cold patch. |

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FIGURE
A-7

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD San Pedro High School | LA1244A | **B-7** |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| 1001 West 15th St., San Pedro, CA | 9/24/2016 | 9/24/2016 | 1 of 1 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Cascade | CME 85 LAR | Hollow Stem Auger | H. Lee | N. Briffa |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| 140 lbs./30 in. (Manual) | 82% | 8 | 16.5 | 203.8 | ▽ NE / *NE* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| Modified California (2.42") | $N_{60}$* = 0.92$N_{MC}$ | AFTER DRILLING ▼ / *NE* |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | SPT $N^*_{60}$ | RECOVERY (%) | RQD (%) | MOISTURE (%) | DRY DENSITY (pcf) | ATTERBERG LIMITS (LL:PI) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | ASPHALT CONCRETE (6") |
| | | | | | | | | | | | | | | | **ARTIFICIAL FILL (af):** GRAVELLY CLAYEY SAND (SC) to GRAVELLY SANDY lean CLAY (CL); mottled dark gray and light gray; dry to moist; some fines; some fine to medium SAND; little coarse GRAVEL; medium plasticity. |
| | | | B-1 | | | | | | 18.4 | | | | | | |
| | 200 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | SANDY lean CLAY (CL); hard; moist; little fine SAND; dark gray to black; trace fine GRAVEL; low plasticity; PP=3.5. |
| | | | R-2-2 | 10 | | | | | | | | | | | **NATIVE:** SEDIMENTARY ROCK (SILTSTONE); fine-grained; very thinly bedded; light brown; slightly weathered; very soft; diatomaceous; PP>4.5. |
| | | | R-2-1 | 20 30 | 50 | 46 | | | 89.8 | 46 | | | | | PP=3.0. |
| | | | R-3 | 15 20 41 | 61 | 56 | | | | | | | | | |
| | 195 | | | | | | | | | | | | | | |
| 10 | | | R-4 | 23 29 38 | 67 | 62 | | | | | | | | | PP>4.5. |
| | 190 | | | | | | | | | | | | | | |
| 15 | | | R-5 | 14 17 21 | 38 | 35 | | | | | | | | | Reddish brown; strong cementation; PP>4.5. |
| | 185 | | | | | | | | | | | | | | Total Depth: 16.5 feet<br>Groundwater not encountered during drilling.<br>Boring backfilled with native soil cuttings and topped wth cold patch. |
| 20 | | | | | | | | | | | | | | | |
| | 180 | | | | | | | | | | | | | | |

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FIGURE
A-8

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD San Pedro High School | LA1244A | **B-8** |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| 1001 West 15th St., San Pedro, CA | 9/24/2016 | 9/24/2016 | 1 of 1 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Cascade | CME 95 | Hollow Stem Auger | C. Woods | N. Briffa |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| 140 lbs./30 in. (Automatic) | 79% | 8 | 16.5 | 189.5 | ▽ NE / *NE* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| Modified California (2.42") | $N_{60}$* = 0.88$N_{MC}$ | AFTER DRILLING ▼ / *NE* |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | SPT $N^*_{60}$ | RECOVERY (%) | RQD (%) | MOISTURE (%) | DRY DENSITY (pcf) | ATTERBERG LIMITS (LL:PI) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | ASPHALT CONCRETE (3") |
| | | | B-1 | | | | | | 13.5 | | | CR EI | | | **NATIVE:** SEDIMENTARY ROCK (SILTSTONE); fine-grained; very thinly bedded; light brown; diatomaceous. |
| | | | R-2 | 7 9 16 | 25 | 22 | | | | | | | | | Dark brown to black; fresh; moderately soft; visible rootlets; PP>4.5. |
| | 185 | | | | | | | | | | | | | | |
| 5 | | | R-3 | 12 9 9 | 18 | 16 | | | | | | | | | PP>4.5. |
| | 180 | | | | | | | | | | | | | | |
| 10 | | | R-4 | 16 24 28 | 52 | 46 | | | 26.8 | 58 | | | | | Light brown; soft; PP>4.5. |
| | 175 | | | | | | | | | | | | | | |
| 15 | | | R-5 | 6 6 9 | 15 | 13 | | | | | | DS | | | PP=3.5. |
| | | | | | | | | | | | | | | | Total Depth: 16.5 feet<br>Groundwater not encountered during drilling.<br>Boring backfilled with native soil cuttings and topped wth cold patch. |
| | 170 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | |
| | 165 | | | | | | | | | | | | | | |

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FIGURE
A-9

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD San Pedro High School | LA1244A | **B-9** |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| 1001 West 15th St., San Pedro, CA | 9/24/2016 | 9/24/2016 | 1 of 1 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Cascade | CME 95 | Hollow Stem Auger | C. Woods | N. Briffa |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| 140 lbs./30 in. (Automatic) | 79% | 8 | 16.5 | 215.0 | ▽ NE / *NE* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| Modified California (2.42") | $N_{60}$* = 0.88$N_{MC}$ | AFTER DRILLING ▼ / *NE* |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | SPT $N^*_{60}$ | RECOVERY (%) | RQD (%) | MOISTURE (%) | DRY DENSITY (pcf) | ATTERBERG LIMITS (LL:PI) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | B-1 | | | | | | | | | | | | ASPHALT CONCRETE (3")<br>**NATIVE:**<br>SEDIMENTARY ROCK (SILTSTONE); fine-grained; very thinly bedded; light brown; diatomaceous. |
| 5 | 210 | | R-2 | 9<br>12<br>17 | 29 | 26 | | | 5.3 | 93 | | | | | White to light brown; fresh; PP=3.5. |
| 10 | 205 | | R-3 | 4<br>8<br>13 | 21 | 18 | | | 28.4 | 73 | | #200 | | | Slightly weathered; PP>4.5.<br>51% fines; 49% SAND. |
| 15 | 200 | | R-4 | 7<br>11<br>14 | 25 | 22 | | | | | 88:26 | C | | | Total Depth: 16.5 feet<br>Groundwater not encountered during drilling.<br>Boring backfilled with native soil cuttings and topped wth cold patch. |
| 20 | 195 | | | | | | | | | | | | | | |

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FIGURE
A-10

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD San Pedro High School | LA1244A | **B-10** |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| 1001 West 15th St., San Pedro, CA | 9/24/2016 | 9/24/2016 | 1 of 1 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Cascade | CME 95 | Hollow Stem Auger | C. Woods | N. Briffa |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| 140 lbs./30 in. (Automatic) | 79% | 8 | 11.5 | 170.5 | ▽ NE / *NE* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| Modified California (2.42") | $N_{60}$* = 0.88$N_{MC}$ | AFTER DRILLING ▼ / *NE* |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | SPT $N^*_{60}$ | RECOVERY (%) | RQD (%) | MOISTURE (%) | DRY DENSITY (pcf) | ATTERBERG LIMITS (LL:PI) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 170 | | | | | | | | | | | | | | ASPHALT CONCRETE (4") |
| | | | B-1 | | | | | | 28.2 | | | | | | **NATIVE:** SEDIMENTARY ROCK (SILTSTONE); fine-grained; very thinly bedded; light brown; diatomaceous. |
| 5 | 165 | | R-2 | 5<br>9<br>12 | 21 | 18 | | | | | | | | | Light gray; slightly weathered; soft; PP>4.5. |
| 10 | 160 | | R-3 | 5<br>8<br>8 | 16 | 14 | | | 44.3 | 64 | | | | | Light brown; PP=4.5. |
| | | | | | | | | | | | | | | | Total Depth: 11.5 feet<br>Groundwater not encountered during drilling.<br>Boring backfilled with native soil cuttings and topped wth cold patch. |
| 15 | 155 | | | | | | | | | | | | | | |
| 20 | 150 | | | | | | | | | | | | | | |

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FIGURE
A-11

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD San Pedro High School | LA1244A | **B-11** |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| 1001 West 15th St., San Pedro, CA | 9/24/2016 | 9/24/2016 | 1 of 1 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Cascade | CME 95 | Hollow Stem Auger | C. Woods | N. Briffa |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| 140 lbs./30 in. (Automatic) | 79% | 8 | 11.5 | 168.3 | ▽ NE / *NE* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| Modified California (2.42") | $N_{60}$* = 0.88$N_{MC}$ | AFTER DRILLING ▼ / *NE* |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | SPT $N^*_{60}$ | RECOVERY (%) | RQD (%) | MOISTURE (%) | DRY DENSITY (pcf) | ATTERBERG LIMITS (LL:PI) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | B-1 | | | | | | | | | | | | ASPHALT CONCRETE (3")<br>**NATIVE:**<br>SEDIMENTARY ROCK (SILTSTONE); fine-grained; very thinly bedded; light brown; diatomaceous. |
| | 165 | | R-2 | 4<br>5<br>4 | 9 | 8 | | | | | | | | | Slightly weathered; PP=1.75. |
| 5 | | | R-3 | 4<br>5<br>12 | 17 | 15 | | | | | | DS | | | Fresh; soft; PP>4.5. |
| | 160 | | | | | | | | | | | | | | |
| 10 | | | R-4 | 19<br>6<br>8 | 14 | 12 | | | | | | DS | | | |
| | 155 | | | | | | | | | | | | | | Total Depth: 11.5 feet<br>Groundwater not encountered during drilling.<br>Boring backfilled with native soil cuttings and topped wth cold patch. |
| 15 | | | | | | | | | | | | | | | |
| | 150 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | |
| | 145 | | | | | | | | | | | | | | |

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FIGURE
A-12

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD San Pedro High School | LA1244A | **B-12** |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| 1001 West 15th St., San Pedro, CA | 9/24/2016 | 9/24/2016 | 1 of 1 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Cascade | CME 95 | Hollow Stem Auger | C. Woods | N. Briffa |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| 140 lbs./30 in. (Automatic) | 79% | 8 | 11.5 | 187.6 | ▽ NE / *NE* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| Modified California (2.42") | $N_{60}$* = 0.88$N_{MC}$ | AFTER DRILLING ▼ / *NE* |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | SPT $N^*_{60}$ | RECOVERY (%) | RQD (%) | MOISTURE (%) | DRY DENSITY (pcf) | ATTERBERG LIMITS (LL:PI) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | | | | | | | | | ASPHALT CONCRETE (3") |
| | | | | | | | | | | | | | | | **NATIVE:** SEDIMENTARY ROCK (SILTSTONE); fine-grained; thinly bedded; light brown to white; diatomaceous. |
| | 185 | | B-1 | | | | | | 17.5 | | | EI | | | |
| 5 | | | R-2 | 11<br>16<br>28 | 44 | 38 | | | 7.4 | | | | | | Reddish brown; slightly weathered; soft. |
| | 180 | | | | | | | | | | | | | | |
| 10 | | | R-3 | 9<br>8<br>6 | 14 | 12 | | | | | | | | | Light brown. |
| | 175 | | | | | | | | | | | | | | Total Depth: 11.5 feet<br>Groundwater not encountered during drilling.<br>Boring backfilled with native soil cuttings and topped wth cold patch. |
| 15 | | | | | | | | | | | | | | | |
| | 170 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | |
| | 165 | | | | | | | | | | | | | | |

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FIGURE
A-13

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD San Pedro High School | LA1244A | **B-13** |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| 1001 West 15th St., San Pedro, CA | 9/24/2016 | 9/24/2016 | 1 of 1 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Cascade | CME 95 | Hollow Stem Auger | C. Woods | N. Briffa |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| 140 lbs./30 in. (Automatic) | 79% | 8 | 11.5 | 188.1 | ▽ NE / *NE* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| Modified California (2.42") | $N_{60}$* = 0.88$N_{MC}$ | AFTER DRILLING ▼ / *NE* |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | SPT $N^*_{60}$ | RECOVERY (%) | RQD (%) | MOISTURE (%) | DRY DENSITY (pcf) | ATTERBERG LIMITS (LL:PI) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | B-1 | | | | | | | | | | | | ASPHALT CONCRETE (4")<br>**NATIVE:**<br>SEDIMENTARY ROCK (SILTSTONE); fine-grained; very thinly bedded; yellowish brown to light brown; diatomaceous. |
| | 185 | | R-2 | 23<br>50/4" | 50/4" | 44/4" | | | 9.1 | 89 | 45:8<br>45:8 | C | | | Light brown; slightly weathered; soft; PP>4.5. |
| 5 | | | R-3 | 4<br>8<br>13 | 21 | 18 | | | | | | | | | Fresh. |
| | 180 | | | | | | | | | | | | | | |
| 10 | | | R-4 | 4<br>12<br>26 | 38 | 33 | | | 8.6 | 109 | | | | | Light brown to reddish brown; slightly weathered; PP>4.5. |
| | 175 | | | | | | | | | | | | | | Total Depth: 11.5 feet<br>Groundwater not encountered during drilling.<br>Boring backfilled with native soil cuttings and topped wth cold patch. |
| 15 | | | | | | | | | | | | | | | |
| | 170 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | |
| | 165 | | | | | | | | | | | | | | |

GDC_LOG_BORING_2016 LA1244A.GPJ GDC2013.GDT 11/2/16

GROUP DELTA CONSULTANTS
370 Amapola Ave, Suite 212
Torrance, CA 90501

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.

FIGURE
A-14

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD San Pedro High School | LA1244A | **B-14** |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| 1001 West 15th St., San Pedro, CA | 9/24/2016 | 9/24/2016 | 1 of 2 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Cascade | CME 85 LAR | Hollow Stem Auger | H. Lee | N. Briffa |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| 140 lbs./30 in. (Manual) | 82% | 8 | 26.5 | 170.6 | ▽ NE / *NE* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| Modified California (2.42") | $N_{60}$* = 0.92$N_{MC}$ | AFTER DRILLING ▼ / *NE* |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | SPT $N^*_{60}$ | RECOVERY (%) | RQD (%) | MOISTURE (%) | DRY DENSITY (pcf) | ATTERBERG LIMITS (LL:PI) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 170 | | B-1 | | | | | | 32.3 | | | EI | | | ASPHALT CONCRETE (2")<br>**ARTIFICIAL FILL (af):**<br>Lean CLAY (CL); light brown to dark brown; moist; few coarse GRAVEL; medium plasticity; some cementation. |
| 5 | 165 | | R-2 | 8<br>9<br>14 | 23 | 21 | | | 40.2 | 75 | | | | | Lean CLAY with GRAVEL (CL); hard; dark brown; moist; little fine to coarse GRAVEL; medium plasticity; PP>4.5. |
| | | | R-3 | 12<br>13<br>21 | 34 | 31 | | | | | | DS | | | Very stiff; PP=2.75. |
| 10 | 160 | | R-4 | 20<br>24<br>28 | 52 | 48 | | | 24.8 | 97 | 65:42 | C | | | Fat CLAY (CH); very stiff; black; moist; few fine GRAVEL; medium plasticity; PP=3.0. |
| 15 | 155 | | R-5 | 18<br>20<br>29 | 49 | 45 | | | | | | | | | Lean CLAY (CL); very stiff; brown; few fine to coarse SAND; trace cementation; PP=2.0. |
| | | | | | | | | | | | | | | | **NATIVE:**<br>SEDIMENTARY ROCK (SILTSTONE); fine-grained; thinly bedded; light brown; moderately weathered; soft; diatomaceous. |
| 20 | 150 | | R-6 | 12<br>14<br>16 | 30 | 28 | | | 24.7 | 92 | | | | | Slightly weathered; trace calcium carbonate; PP=2.5. |

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FIGURE
A-15 a

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD San Pedro High School | LA1244A | **B-14** |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| 1001 West 15th St., San Pedro, CA | 9/24/2016 | 9/24/2016 | 2 of 2 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Cascade | CME 85 LAR | Hollow Stem Auger | H. Lee | N. Briffa |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| 140 lbs./30 in. (Manual) | 82% | 8 | 26.5 | 170.6 | ▽ NE / *NE* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| Modified California (2.42") | $N_{60}$* = 0.92$N_{MC}$ | AFTER DRILLING ▼ / *NE* |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | SPT $N^*_{60}$ | RECOVERY (%) | RQD (%) | MOISTURE (%) | DRY DENSITY (pcf) | ATTERBERG LIMITS (LL:PI) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 145 | | R-7 | 12<br>14<br>19 | 33 | 30 | | | | | | | | | SEDIMENTARY ROCK (CLAYSTONE)*(continued).*<br>PP=4.25. |
| 30 | 140 | | | | | | | | | | | | | | Total Depth: 26.5 feet<br>Groundwater not encountered during drilling.<br>Boring backfilled with native soil cuttings and topped wth cold patch. |
| 35 | 135 | | | | | | | | | | | | | | |
| 40 | 130 | | | | | | | | | | | | | | |
| 45 | 125 | | | | | | | | | | | | | | |

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FIGURE
A-15 b

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD San Pedro High School | LA1244A | **B-15** |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| 1001 West 15th St., San Pedro, CA | 9/24/2016 | 9/24/2016 | 1 of 1 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Cascade | CME 95 | Hollow Stem Auger | C. Woods | N. Briffa |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| 140 lbs./30 in. (Automatic) | 79% | 8 | 16.5 | 169.0 | ▽ NE / *NE* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| Modified California (2.42") | $N_{60}$* = 0.88$N_{MC}$ | AFTER DRILLING ▼ / *NE* |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | SPT $N^*_{60}$ | RECOVERY (%) | RQD (%) | MOISTURE (%) | DRY DENSITY (pcf) | ATTERBERG LIMITS (LL:PI) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | B-1 | | | | | | 7.1 | | | #200 | | | CONCRETE (3")<br>**ARTIFICIAL FILL (af):**<br>SILTY SAND (SM); brown; moist; mostly fine to medium SAND; little fines; few to little fine GRAVEL; nonplastic. 66% SAND; 22% fines; 12% GRAVEL. |
| | 165 | | | | | | | | | | | | | | |
| 5 | | | R-2 | 5<br>8<br>10 | 18 | 16 | | | | | | | | | **NATIVE:**<br>SEDIMENTARY ROCK (SILTSTONE); fine-grained; very thinly bedded; white to light brown; fresh; soft; diatomaceous; PP=4.5. |
| | 160 | | | | | | | | | | | | | | |
| 10 | | | R-3 | 8<br>13<br>16 | 29 | 26 | | | | | | | | | Slightly weathered; PP>4.5. |
| | 155 | | | | | | | | | | | | | | |
| 15 | | | R-4 | 18<br>21<br>12 | 33 | 29 | | | 26.3 | 71 | | | | | Light brown to reddish brown; moderately weathered; PP>4.5. |
| | 150 | | | | | | | | | | | | | | Total Depth: 16.5 feet<br>Groundwater not encountered during drilling.<br>Boring backfilled with native soil cuttings and topped wth quickset concrete. |
| 20 | | | | | | | | | | | | | | | |
| | 145 | | | | | | | | | | | | | | |

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GROUP DELTA CONSULTANTS
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Torrance, CA 90501

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FIGURE
A-16

# APPENDIX B
# LABORATORY TESTING

# APPENDIX B
# LABORATORY TESTING

## B.1 General

The laboratory testing program performed for this investigation by GDC included determination of Moisture Content, Dry Unit Weight, Atterberg Limits, Consolidation, Pocket Penetrometer, Direct Shear, Expansion Index, and Corrosivity. Descriptions of these tests are given below.

## B.2 Moisture Content and Dry Unit Weight

The natural moisture content and dry unit weight of California ring samples were determined in general accordance with ASTM D 2216 and ASTM D2937. Results of these tests are presented on the boring logs in Appendix A.

## B.3 Atterberg Limits

Soil plasticity was evaluated by measuring the Atterberg limits. This test includes Liquid Limit (LL) and Plastic Limit (PL) tests to determine the Plasticity Index (PI) in accordance with ASTM D4318. Results of these tests are illustrated in the plasticity chart shown in Figure B-1.

## B.4 Consolidation

The consolidation characteristics of the foundation soils were determined by performing one-dimensional consolidation in general accordance with ASTM D2435, using a floating ring consolidometer and dead weight system. Results of these tests are presented in Figures B-2 to B-7.

## B.5 Direct Shear Test

To determine the shear strength parameters of the on-site soils, direct shear tests were performed on selected undisturbed drive samples in accordance with ASTM D 3080. After the initial weight and volume measurements were made, the sample was placed in a calibrated shear machine and a selected normal load was applied. The samples were submerged, allowed to consolidate, and then were sheared to failure. Shear stress and sample deformation were monitored throughout the test. The process was repeated under two additional normal loads. The test results are graphically presented in Figures B-8 to B-13.

## B.6 Pocket Penetrometer

Undrained shear strengths ($S_u$) of cohesive samples were measured using a pocket penetrometer. The measured $S_u$ values (in ksf) are presented in the boring log0s of Appendix A.

## B.7 Soil Expansion Index

Four bulk samples were collected and tested to determine the expansion index. The bulk samples were collected in the near surface soils (depth of 0 to 5 feet). Testing was performed according to ASTM D4829. The results of these tests are presented in Table B-1.

**B.8 Soil Corrosivity**

Corrosivity testing included performing soil pH and resistivity (Caltrans Test Method 643), water-soluble chlorides (ASTM D512), and water soluble sulfates (ASTM D516). The test results are summarized in Table B-2 and shown in Figure B-14.

**B.9 List Tables and Figures**

The following table and figures are attached and complete this appendix:

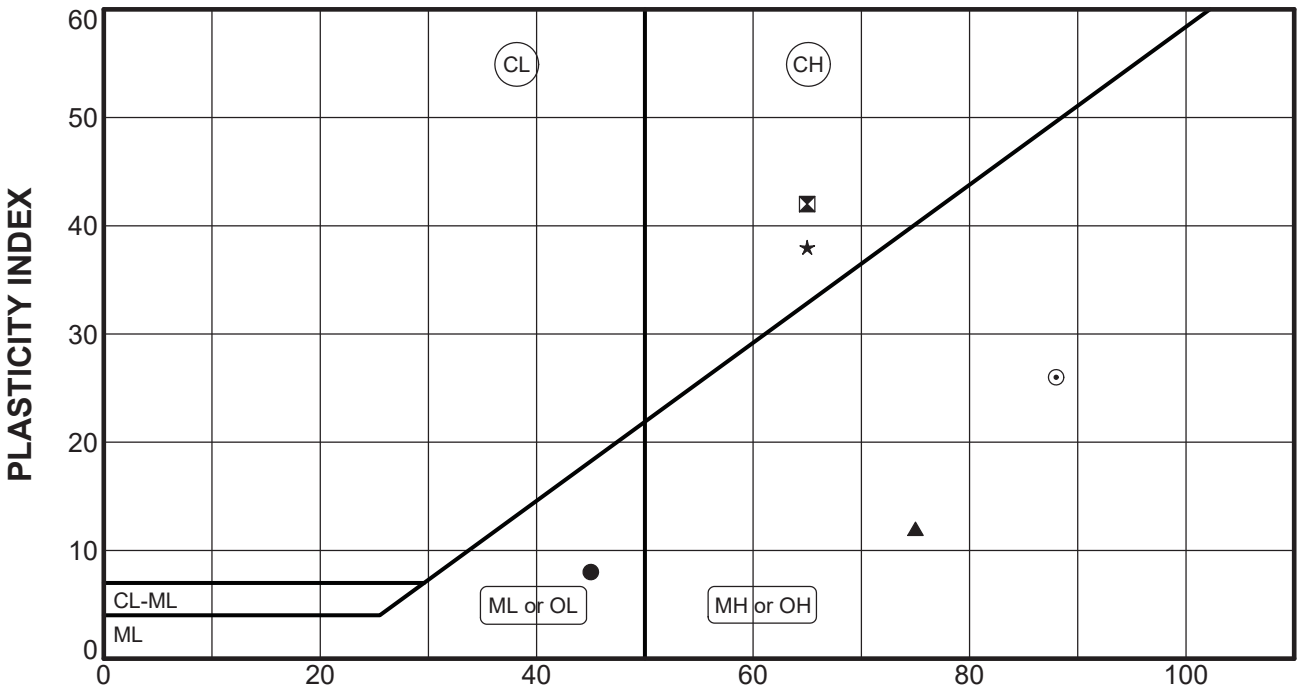
| | |
|---|---|
| Table B-1 | Soil Expansion |
| Table B-2 | Soil Corrosivity |
| Figure B-1 | Atterberg Limits Plots |
| Figures B-2 to B-7 | Consolidation Plots |
| Figures B-8 and B-13 | Direct Shear Plots |
| Figure B-14 | Corrosivity Test Results |

**Table B-1. Soil Expansion**

| Boring | Sample Depth (ft.) | Expansion Index |
|---|---|---|
| B-3 | 0-5 | 55 (Medium) |
| B-8 | 0-2.5 | 53 (Medium) |
| B-12 | 0-5 | 35 (Low) |
| B-14 | 0-5 | 15 (Very Low) |

**Table B-2. Soil Corrosivity**

| Boring | Sample Depth (ft.) | pH | Sulfate Content (%) | Chloride Content (%) | Minimum Resistivity (ohm-cm) |
|---|---|---|---|---|---|
| B-4 | 0-5 | 7.70 | 0.03 | 0.06 | 356 |
| B-6 | 0-5 | 7.75 | 0.01 | 0.09 | 298 |
| B-8 | 0-2.5 | 7.93 | < 0.01 | < 0.01 | 1303 |




| SYMBOL | BORING | DEPTH (ft) | LL | PL | PI | LI | w% | USCS CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|
| ● | **B-13** | **3.5** | **45** | **37** | **8** | | | **SILTSTONE** |
| ⊠ | **B-14** | **11.0** | **65** | **23** | **42** | | | **Fat CLAY (CH)** |
| ▲ | **B-3** | **8.5** | **75** | **63** | **12** | | | **SILTSTONE** |
| ★ | **B-5** | **8.5** | **65** | **27** | **38** | | | **Fat CLAY (CH)** |
| ⊙ | **B-9** | **16.0** | **88** | **62** | **26** | | | **SILTSTONE** |

GDC_ATTERBERG_APP_E_LA1244A.GPJ GDC_WLOG.GDT 10/25/16

GROUP DELTA

# ATTERBERG LIMITS
**(ASTM D 4318)**

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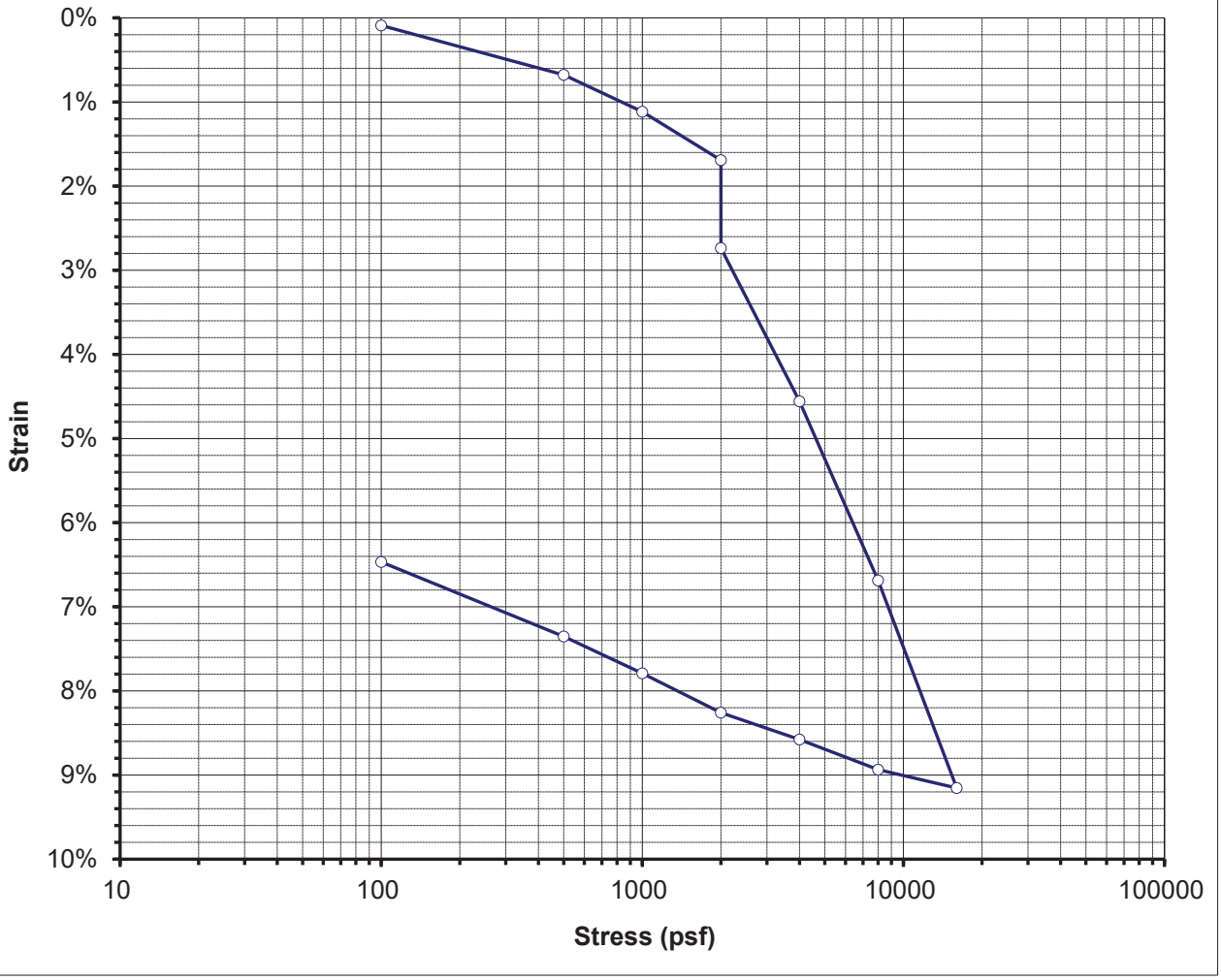
Project: LAUSD San Pedro High School

Location: 1001 West 15th St., San Pedro, CA

Number: LA1244A

FIGURE B-1

# CONSOLIDATION TEST RESULTS
## ASTM D-2435




| | | | |
|---|---|---|---|
| Boring No. | B-13 | Sample Depth | 3.5' |
| Sample No. | R-2 | USCS | ML |

**BEFORE TEST**

| | | |
|---|---|---|
| Initial Moisture Content: | 25.4% | |
| Initial Dry Unit Wt: | 71.3 | pcf |
| Initial Total Unit Wt.: | 89.5 | pcf |
| Initial Void Ratio: | 1.3687 | |
| Initial Degree of Saturation: | 50.3% | |

**AFTER TEST**

| | | |
|---|---|---|
| Final Moisture Content: | 44.9% | |
| Final Dry Unit Wt: | 76.3 | pcf |
| Final Total Unit Wt.: | 110.5 | pcf |
| Final Void Ratio: | 1.2155 | |
| Final Degree of Saturation: | 100.0% | |

Water Added at: 2000 psf

| ATTERBERG LIMITS | | | | | |
|---|---|---|---|---|---|
| LL= | 45 | PL= | 37 | PI= | 8 |

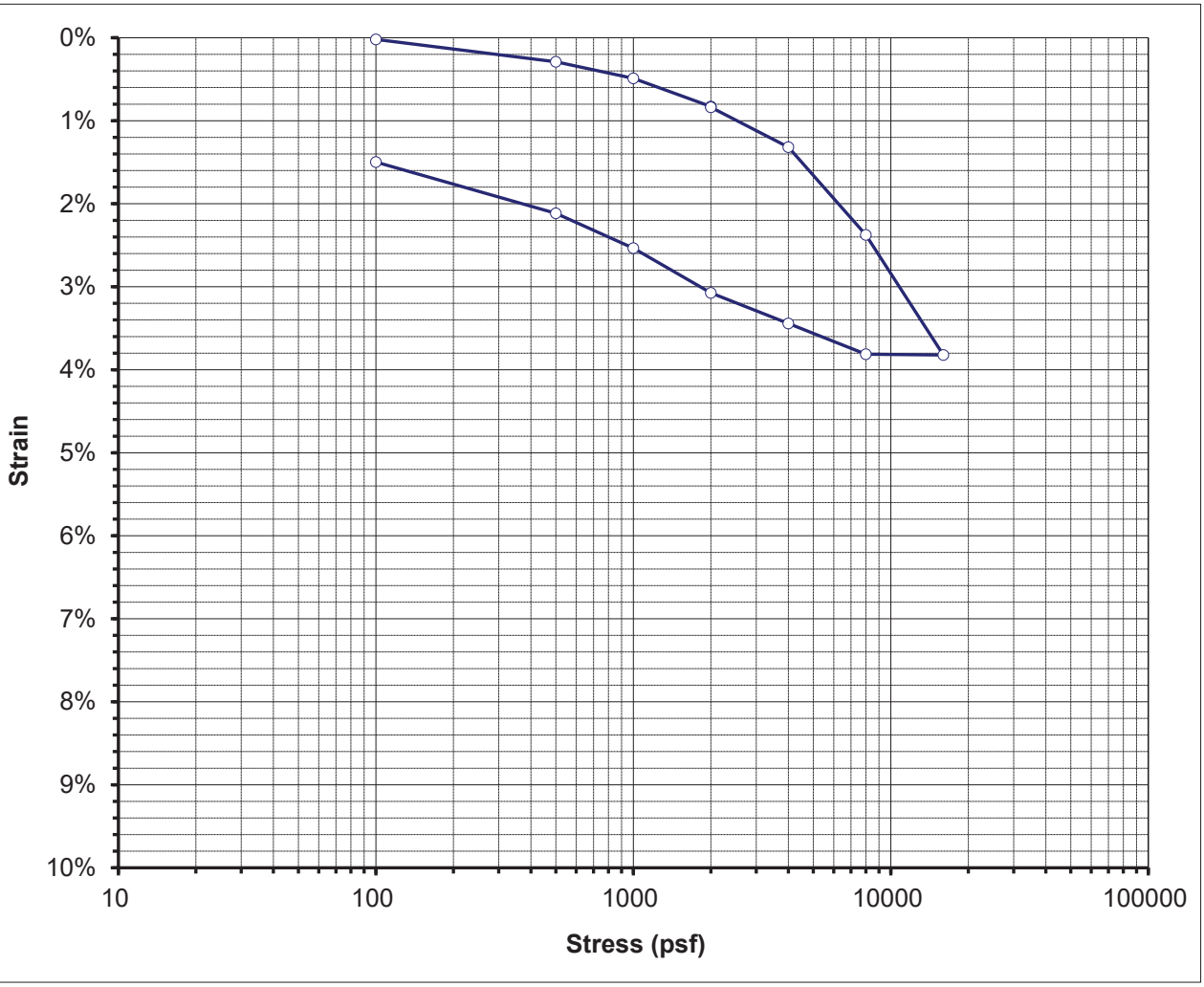
Assumed Specific Gravity of Solids, Gs: 2.71

| PRESSURE (psf) | SAMPLE STRAIN | VOID RATIO |
|---|---|---|
| 100 | 0.09% | 1.3665 |
| 500 | 0.68% | 1.3526 |
| 1000 | 1.11% | 1.3423 |
| 2000 | 1.69% | 1.3286 |
| 2000 | 2.74% | 1.3038 |
| 4000 | 4.56% | 1.2607 |
| 8000 | 6.69% | 1.2103 |
| 16000 | 9.15% | 1.1518 |
| 8000 | 8.94% | 1.1570 |
| 4000 | 8.58% | 1.1655 |
| 2000 | 8.26% | 1.1730 |
| 1000 | 7.79% | 1.1841 |
| 500 | 7.35% | 1.1945 |
| 100 | 6.47% | 1.2155 |
| | | |
| | | |
| | | |
| | | |

| | | | | |
|---|---|---|---|---|
| PROJECT NUMBER: | LA1244A | PROJECT NAME: | San Pedro High School | FIGURE NO. B-2 |

GROUP DELTA

# CONSOLIDATION TEST RESULTS
## ASTM D-2435




| | | | |
|---|---|---|---|
| Boring No. | B-3 | Sample Depth | 8.5' |
| Sample No. | R-3 | USCS | MH |

**BEFORE TEST**

| | | |
|---|---|---|
| Initial Moisture Content: | 53.9% | |
| Initial Dry Unit Wt: | 60.9 | pcf |
| Initial Total Unit Wt.: | 93.7 | pcf |
| Initial Void Ratio: | 1.6604 | |
| Initial Degree of Saturation: | 84.3% | |

**AFTER TEST**

| | | |
|---|---|---|
| Final Moisture Content: | 62.4% | |
| Final Dry Unit Wt: | 61.8 | pcf |
| Final Total Unit Wt.: | 108.8 | pcf |
| Final Void Ratio: | 1.6206 | |
| Final Degree of Saturation: | 100.0% | |

Water Added at: 2000 psf

| ATTERBERG LIMITS | | | | | |
|---|---|---|---|---|---|
| LL= | 75 | PL= | 63 | PI= | 12 |

Assumed Specific Gravity of Solids, Gs: 2.60

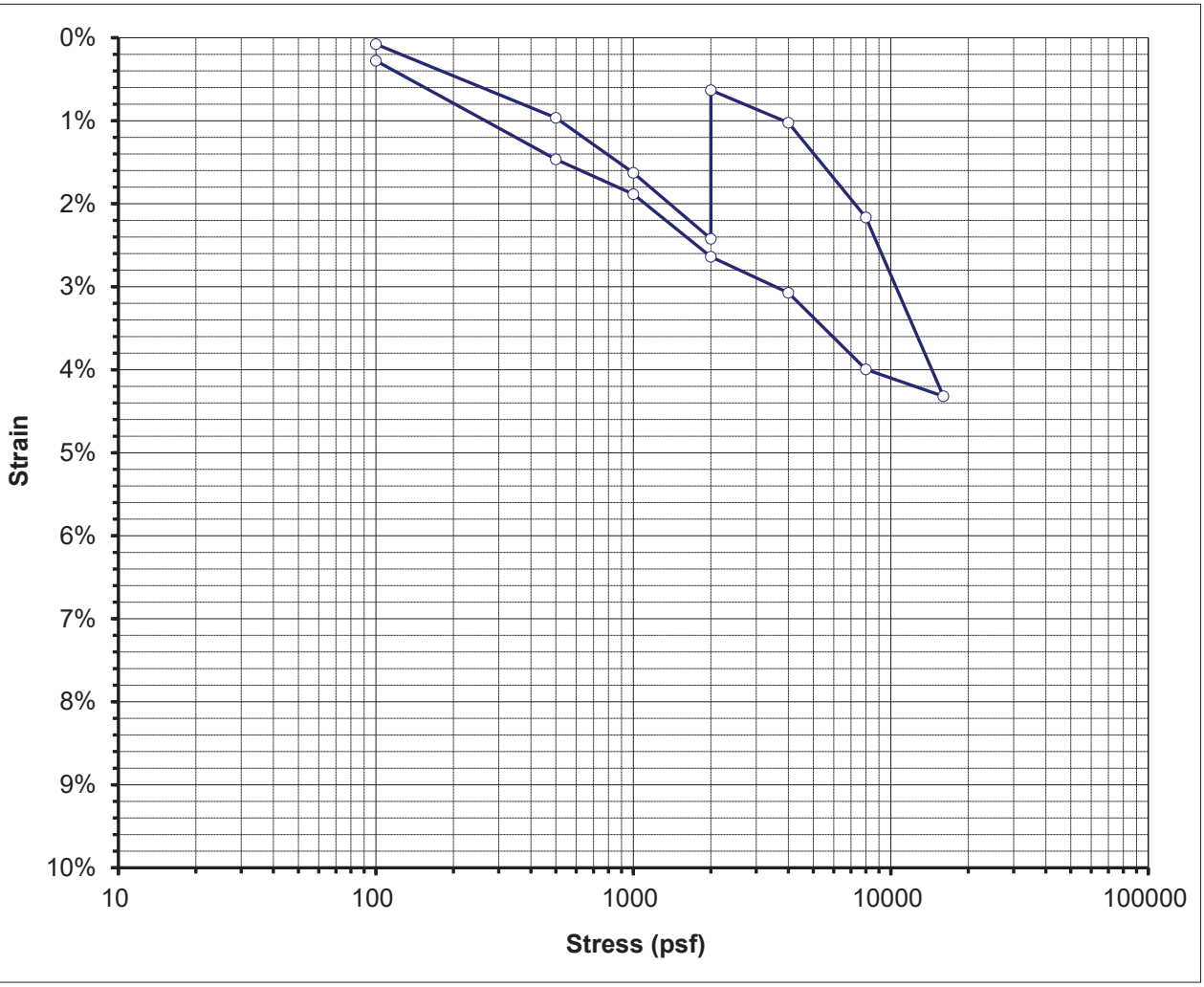
| PRESSURE (psf) | SAMPLE STRAIN | VOID RATIO |
|---|---|---|
| 100 | 0.02% | 1.6599 |
| 500 | 0.29% | 1.6527 |
| 1000 | 0.49% | 1.6474 |
| 2000 | 0.83% | 1.6384 |
| 2000 | 0.84% | 1.6381 |
| 4000 | 1.32% | 1.6253 |
| 8000 | 2.38% | 1.5972 |
| 16000 | 3.82% | 1.5587 |
| 8000 | 3.81% | 1.5590 |
| 4000 | 3.44% | 1.5688 |
| 2000 | 3.07% | 1.5786 |
| 1000 | 2.53% | 1.5929 |
| 500 | 2.12% | 1.6041 |
| 100 | 1.50% | 1.6206 |
| | | |
| | | |
| | | |
| | | |

| PROJECT NUMBER: | PROJECT NAME: | FIGURE NO. |
|---|---|---|
| LA1244A | San Pedro High School | B-3 |

GROUP DELTA

N:\Projects\1200-1299\LA-1244A LAUSD San Pedro HS Comprehensive Geotechnical Report\Laboratory Testing\LAB RESULTS\Consolidation Test LA1244A B-3 R3 SO4229

# CONSOLIDATION TEST RESULTS
## ASTM D-2435




| | | | |
|---|---|---|---|
| Boring No. | B-5 | Sample Depth | 8.5 |
| Sample No. | R-2 | USCS | CH |

**BEFORE TEST**

| | | |
|---|---|---|
| Initial Moisture Content: | 25.9% | |
| Initial Dry Unit Wt: | 89.1 | pcf |
| Initial Total Unit Wt.: | 112.2 | pcf |
| Initial Void Ratio: | 0.7918 | |
| Initial Degree of Saturation: | 83.8% | |

**AFTER TEST**

| | | |
|---|---|---|
| Final Moisture Content: | 30.7% | |
| Final Dry Unit Wt: | 89.4 | pcf |
| Final Total Unit Wt.: | 116.8 | pcf |
| Final Void Ratio: | 0.7869 | |
| Final Degree of Saturation: | 100.0% | |

Water Added at: 2000 psf

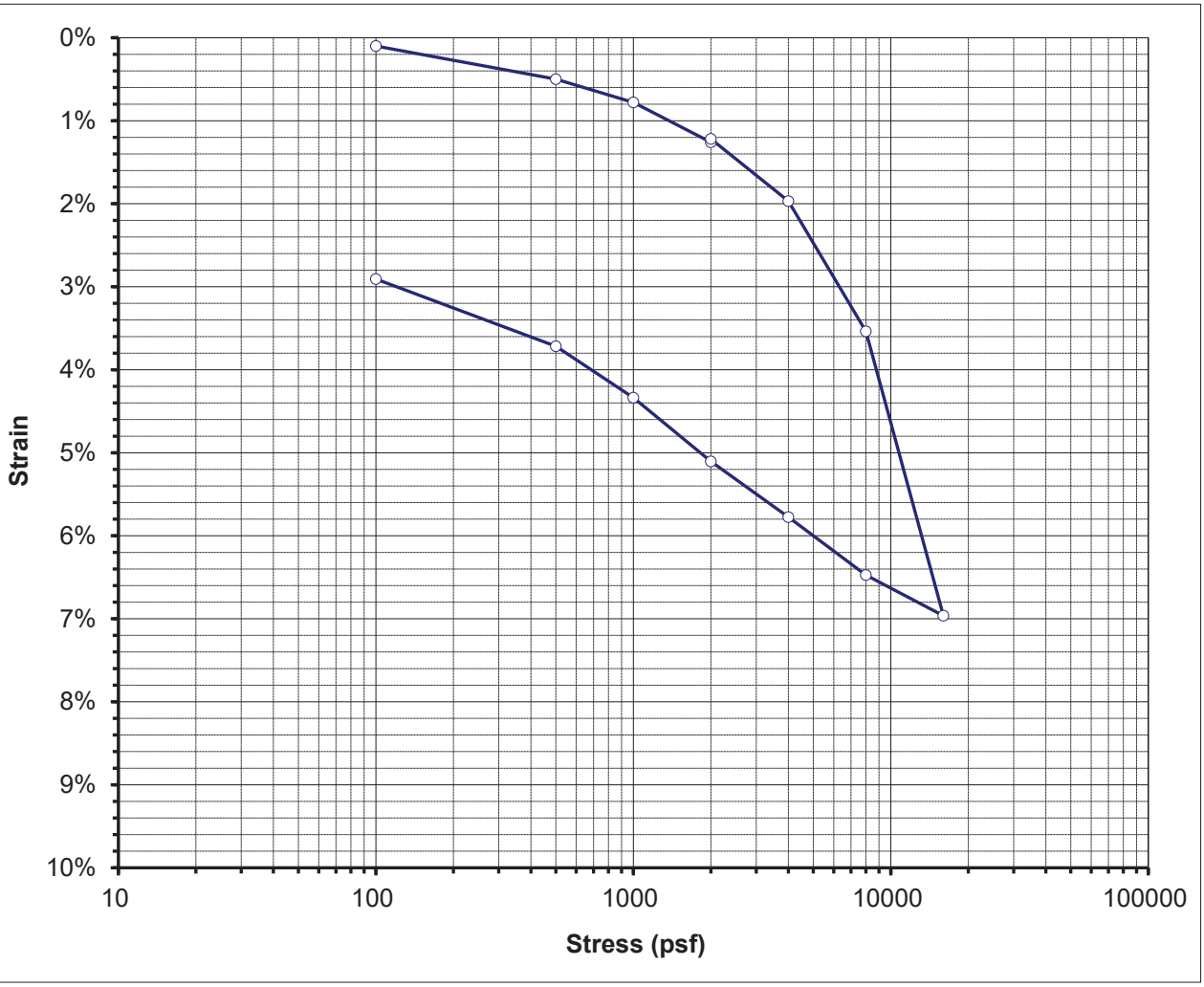
| ATTERBERG LIMITS | | | | | |
|---|---|---|---|---|---|
| LL= | 65 | PL= | 27 | PI= | 38 |

Assumed Specific Gravity of Solids, Gs: 2.56

| PRESSURE (psf) | SAMPLE STRAIN | VOID RATIO |
|---|---|---|
| 100 | 0.08% | 0.7904 |
| 500 | 0.97% | 0.7745 |
| 1000 | 1.63% | 0.7627 |
| 2000 | 2.42% | 0.7484 |
| 2000 | 0.63% | 0.7805 |
| 4000 | 1.02% | 0.7735 |
| 8000 | 2.17% | 0.7530 |
| 16000 | 4.32% | 0.7144 |
| 8000 | 4.00% | 0.7202 |
| 4000 | 3.07% | 0.7368 |
| 2000 | 2.64% | 0.7445 |
| 1000 | 1.88% | 0.7580 |
| 500 | 1.46% | 0.7656 |
| 100 | 0.28% | 0.7869 |
| | | |
| | | |
| | | |
| | | |

| | | | | |
|---|---|---|---|---|
| PROJECT NUMBER: LA1244A | PROJECT NAME: San Pedro High School | FIGURE NO. B-4 | GROUP DELTA |

# CONSOLIDATION TEST RESULTS
## ASTM D-2435




| | | | |
|---|---|---|---|
| Boring No. | B-2 | Sample Depth | 11' |
| Sample No. | R-4 | USCS | Diatomaceous Siltstone |

**BEFORE TEST**

| | | |
|---|---|---|
| Initial Moisture Content: | 171.8% | |
| Initial Dry Unit Wt: | 26.4 | pcf |
| Initial Total Unit Wt.: | 71.8 | pcf |
| Initial Void Ratio: | 4.7416 | |
| Initial Degree of Saturation: | 88.0% | |

**AFTER TEST**

| | | |
|---|---|---|
| Final Moisture Content: | 188.3% | |
| Final Dry Unit Wt: | 27.2 | pcf |
| Final Total Unit Wt.: | 78.4 | pcf |
| Final Void Ratio: | 4.5747 | |
| Final Degree of Saturation: | 100.0% | |

Water Added at: 2000 psf

| ATTERBERG LIMITS | | | | | |
|---|---|---|---|---|---|
| LL= | | PL= | | PI= | |

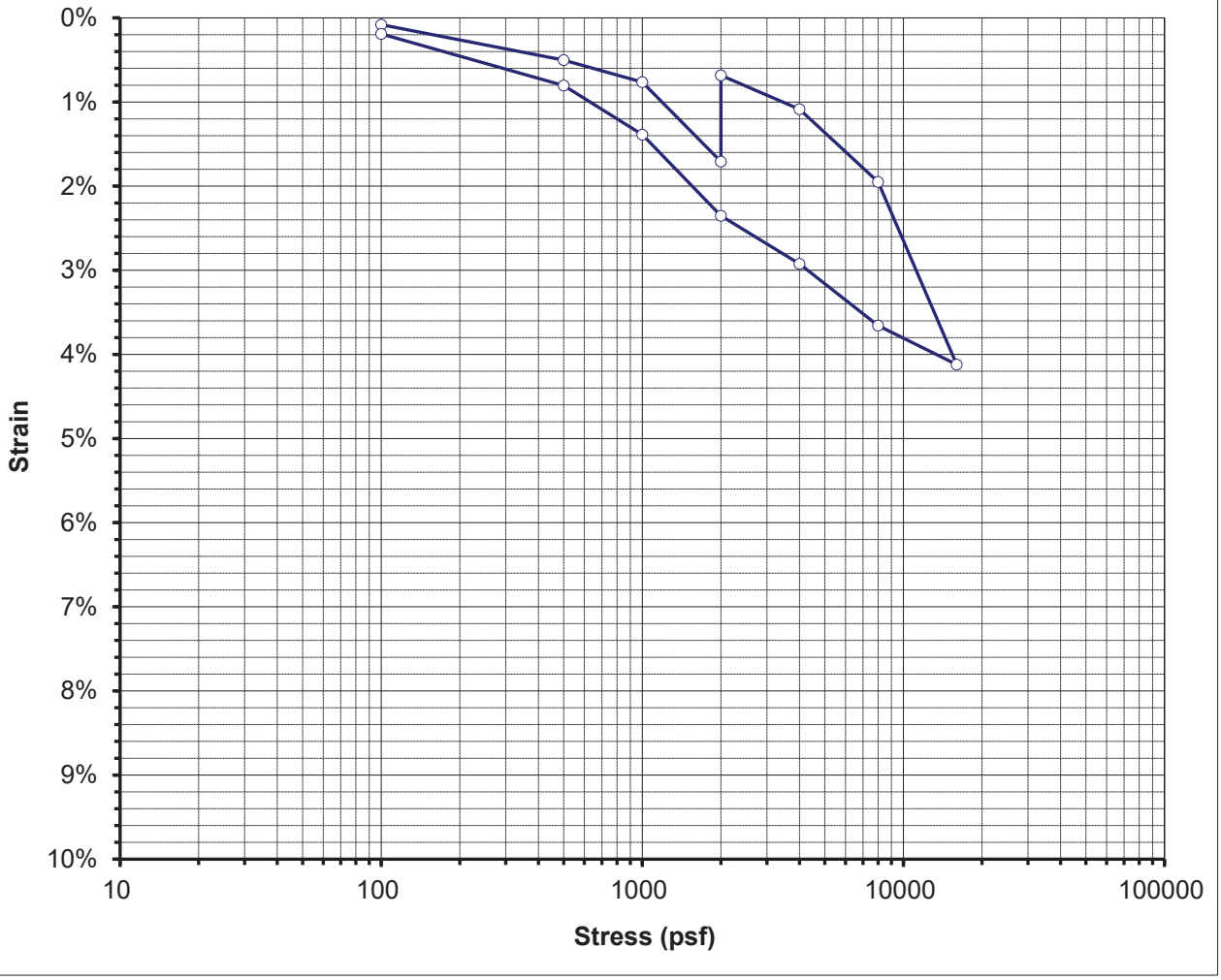
Assumed Specific Gravity of Solids, Gs: 2.43

| PRESSURE (psf) | SAMPLE STRAIN | VOID RATIO |
|---|---|---|
| 100 | 0.10% | 4.7358 |
| 500 | 0.50% | 4.7129 |
| 1000 | 0.78% | 4.6968 |
| 2000 | 1.26% | 4.6693 |
| 2000 | 1.22% | 4.6716 |
| 4000 | 1.97% | 4.6286 |
| 8000 | 3.54% | 4.5385 |
| 16000 | 6.96% | 4.3418 |
| 8000 | 6.47% | 4.3699 |
| 4000 | 5.77% | 4.4100 |
| 2000 | 5.10% | 4.4485 |
| 1000 | 4.34% | 4.4926 |
| 500 | 3.72% | 4.5282 |
| 100 | 2.91% | 4.5747 |
| | | |
| | | |
| | | |
| | | |

| PROJECT NUMBER: | PROJECT NAME: | FIGURE NO. |
|---|---|---|
| LA1244A | San Pedro High School | B-5 |

GROUP DELTA

# CONSOLIDATION TEST RESULTS
## ASTM D-2435




| | | | |
|---|---|---|---|
| Boring No. | B-14 | Sample Depth | 11' |
| Sample No. | R-4 | USCS | CH |

**BEFORE TEST**

| | | |
|---|---|---|
| Initial Moisture Content: | 24.2% | |
| Initial Dry Unit Wt: | 98.0 | pcf |
| Initial Total Unit Wt.: | 121.7 | pcf |
| Initial Void Ratio: | 0.6930 | |
| Initial Degree of Saturation: | 93.0% | |

**AFTER TEST**

| | | |
|---|---|---|
| Final Moisture Content: | 25.9% | |
| Final Dry Unit Wt: | 98.2 | pcf |
| Final Total Unit Wt.: | 123.6 | pcf |
| Final Void Ratio: | 0.6898 | |
| Final Degree of Saturation: | 100.0% | |

Water Added at: 2000 psf

| ATTERBERG LIMITS | | | | | |
|---|---|---|---|---|---|
| LL= | 65 | PL= | 23 | PI= | 42 |

Assumed Specific Gravity of Solids, Gs: 2.66

| PRESSURE (psf) | SAMPLE STRAIN | VOID RATIO |
|---|---|---|
| 100 | 0.08% | 0.6916 |
| 500 | 0.50% | 0.6845 |
| 1000 | 0.76% | 0.6801 |
| 2000 | 1.71% | 0.6641 |
| 2000 | 0.68% | 0.6814 |
| 4000 | 1.09% | 0.6746 |
| 8000 | 1.95% | 0.6600 |
| 16000 | 4.12% | 0.6232 |
| 8000 | 3.66% | 0.6311 |
| 4000 | 2.92% | 0.6435 |
| 2000 | 2.35% | 0.6532 |
| 1000 | 1.39% | 0.6695 |
| 500 | 0.80% | 0.6794 |
| 100 | 0.19% | 0.6898 |
| | | |
| | | |
| | | |
| | | |

| | | | | |
|---|---|---|---|---|
| PROJECT NUMBER: | LA1244A | PROJECT NAME: | San Pedro High School | FIGURE NO. B-6 |

GROUP DELTA

# CONSOLIDATION TEST RESULTS
## ASTM D-2435




| | | | |
|---|---|---|---|
| Boring No. | B-9 | Sample Depth | 16' |
| Sample No. | R-4 | USCS | MH |

**BEFORE TEST**

| | | |
|---|---|---|
| Initial Moisture Content: | 83.6% | |
| Initial Dry Unit Wt: | 38.0 | pcf |
| Initial Total Unit Wt.: | 69.7 | pcf |
| Initial Void Ratio: | 3.2234 | |
| Initial Degree of Saturation: | 66.6% | |

**AFTER TEST**

| | | |
|---|---|---|
| Final Moisture Content: | 117.9% | |
| Final Dry Unit Wt: | 39.8 | pcf |
| Final Total Unit Wt.: | 86.7 | pcf |
| Final Void Ratio: | 3.0304 | |
| Final Degree of Saturation: | 100.0% | |

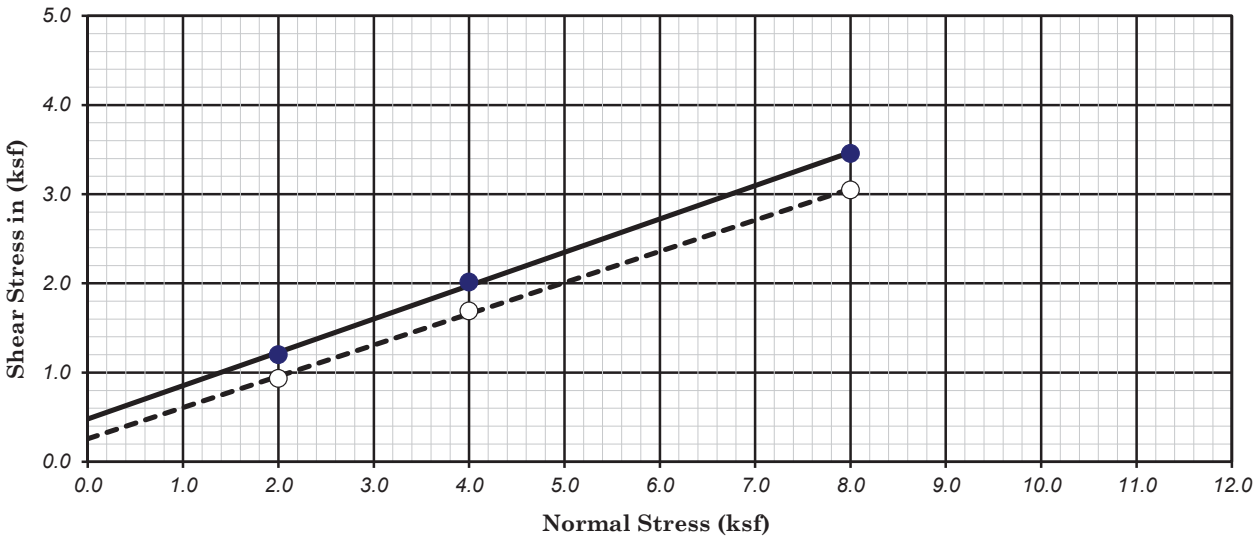
Water Added at: 2000 psf

| ATTERBERG LIMITS | | | | | |
|---|---|---|---|---|---|
| LL= | 88 | PL= | 62 | PI= | 26 |

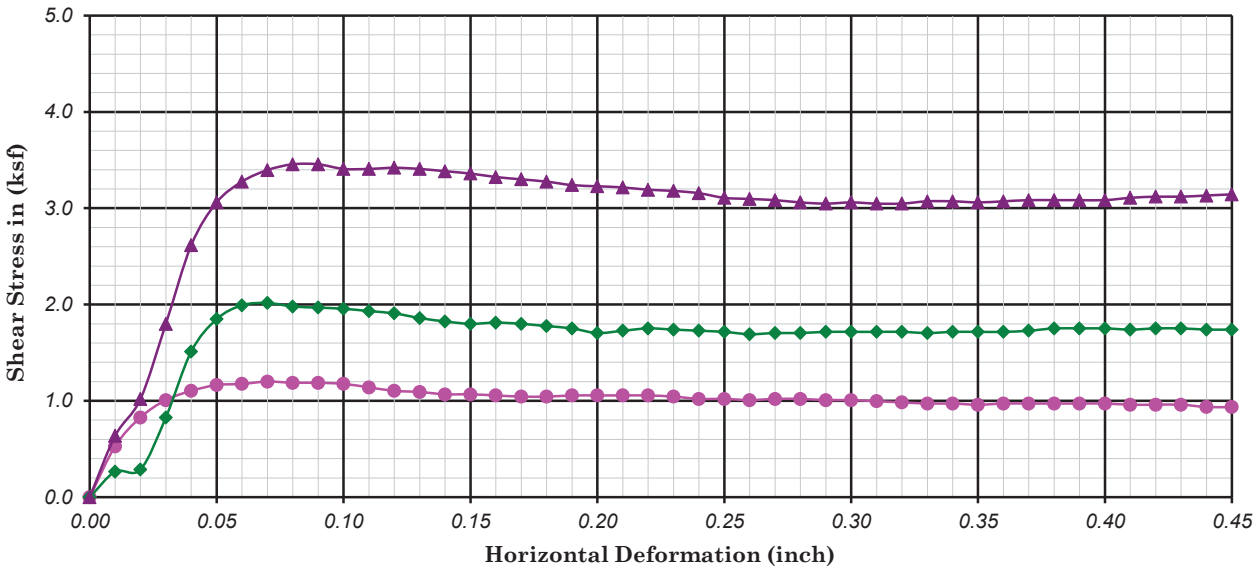
Assumed Specific Gravity of Solids, Gs: 2.57

| PRESSURE (psf) | SAMPLE STRAIN | VOID RATIO |
|---|---|---|
| 100 | 0.24% | 3.2133 |
| 500 | 1.06% | 3.1787 |
| 1000 | 1.50% | 3.1602 |
| 2000 | 2.02% | 3.1383 |
| 2000 | 2.06% | 3.1366 |
| 4000 | 3.06% | 3.0940 |
| 8000 | 5.01% | 3.0118 |
| 16000 | 9.17% | 2.8361 |
| 8000 | 8.67% | 2.8571 |
| 4000 | 7.95% | 2.8875 |
| 2000 | 7.30% | 2.9153 |
| 1000 | 6.51% | 2.9486 |
| 500 | 5.76% | 2.9802 |
| 100 | 4.57% | 3.0304 |
| | | |
| | | |
| | | |
| | | |

| | | | |
|---|---|---|---|
| PROJECT NUMBER: LA1244A | PROJECT NAME: San Pedro High School | FIGURE NO. B-7 | GROUP DELTA |




| Ultimate : ○ | Shear Type : | Saturated | Undisturbed | Peak : ● |
|---|---|---|---|---|




| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Boring No. : B-2 | | Strength Intercept (C) : | 0.48 | (ksf) | Peak | 0.26 | (ksf) | Ultimate |
| Sample No. : R-2 | | | 22.98 | (kPa) | | 12.35 | (kPa) | |
| Depth (ft/m) : 3.5 | 1.07 | Friction Angle ( ϕ ) : | 20.49 | Degree | | 19.30 | Degree | |
| Description : Very Dark Gray Silty Clay / Fat Clay | | | | | Shear Rate (inch/minute) : | 0.0025 | | |

| SYMBOL | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | DRY DENSITY ($kN/m^3$) | VOID RATIO | NORMAL STRESS (ksf) | NORMAL STRESS (kPa) | PEAK STRESS (ksf) | PEAK STRESS (kPa) | ULTIMATE STRESS (ksf) | ULTIMATE STRESS (kPa) |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | 33.25 | 92.33 | 14.53 | 0.83 | 2.00 | 95.76 | 1.20 | 57.46 | 0.94 | 44.82 |
| ◆ | 33.06 | 94.37 | 14.85 | 0.79 | 4.00 | 191.52 | 2.02 | 96.53 | 1.69 | 81.01 |
| ▲ | 30.79 | 97.25 | 15.31 | 0.73 | 8.00 | 383.04 | 3.46 | 165.47 | 3.05 | 145.94 |
| | | | | | | | | | | |

GROUP DELTA

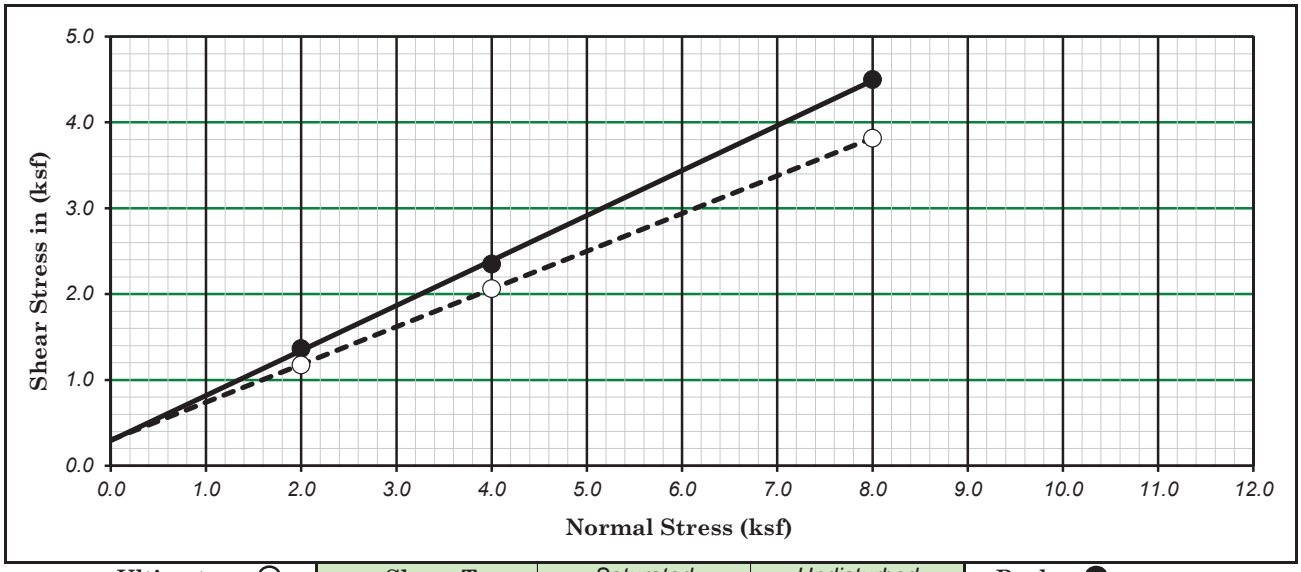
# San Pedro High School

Project No. : LA1244A

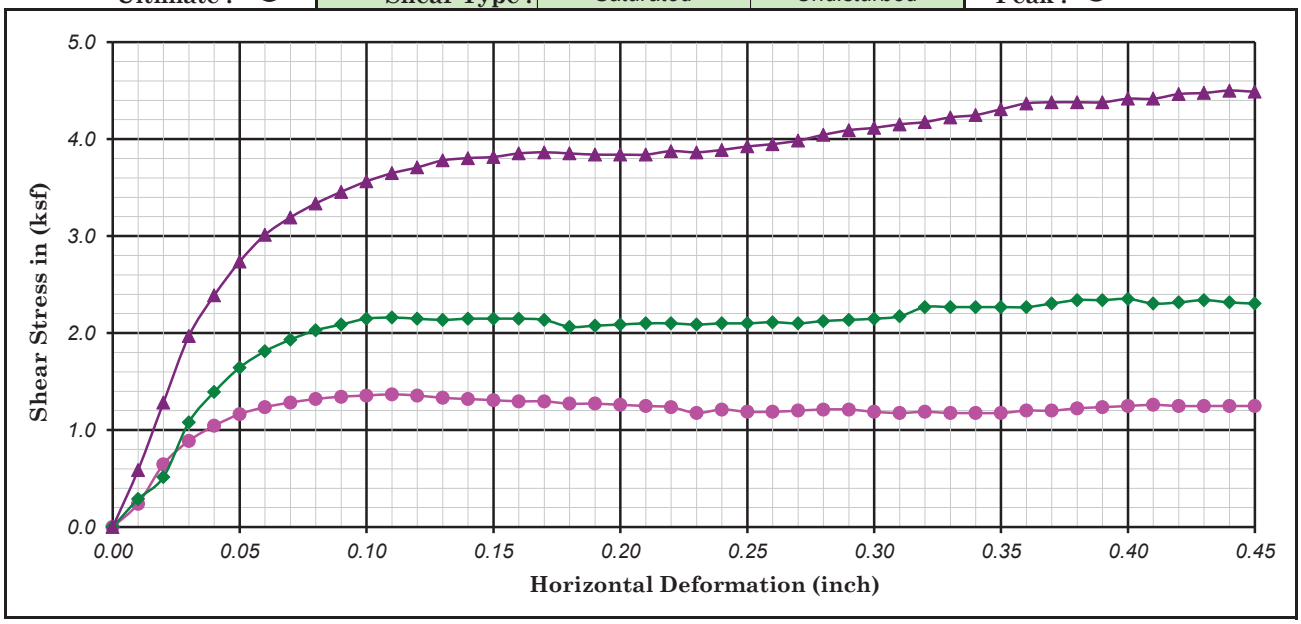
Date : 10/17/16

## DIRECT SHEAR TEST
(ASTM D -3080)

Figure No. : B-8




Ultimate : ○ | Shear Type : Saturated | Undisturbed | Peak : ●




| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Boring No. : B-1 | | Strength Intercept (C) : | 0.29 | (ksf) | Peak | 0.30 | (ksf) | Ultimate |
| Sample No. : R-3 | | | 14.08 | (kPa) | | 14.36 | (kPa) | |
| Depth (ft/m) : 6.0 | 1.83 | Friction Angle ( ϕ ) : | 27.66 | Degree | | 23.74 | Degree | |
| Description : Light Yellowish Brown Siltstone / Claystone - Silty Clay | | | | | Shear Rate (inch/minute) : | 0.0025 | | |

| SYMBOL | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | DRY DENSITY ($kN/m^3$) | VOID RATIO | NORMAL STRESS (ksf) | NORMAL STRESS (kPa) | PEAK STRESS (ksf) | PEAK STRESS (kPa) | ULTIMATE STRESS (ksf) | ULTIMATE STRESS (kPa) |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | 52.90 | 70.51 | 11.10 | 1.39 | 2.00 | 95.76 | 1.37 | 65.50 | 1.18 | 56.31 |
| ◆ | 55.57 | 67.35 | 10.60 | 1.50 | 4.00 | 191.52 | 2.35 | 112.61 | 2.06 | 98.82 |
| ▲ | 60.77 | 65.58 | 10.32 | 1.57 | 8.00 | 383.04 | 4.50 | 215.46 | 3.82 | 182.71 |
| | | | | | | | | | | |

GROUP DELTA

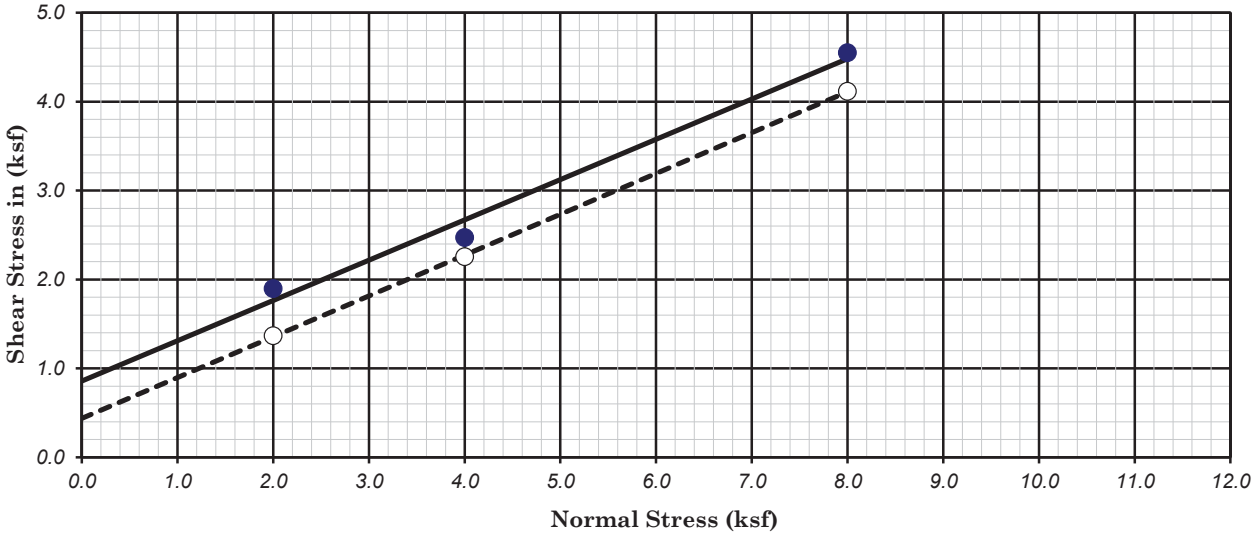
**San Pedro High School**

**DIRECT SHEAR TEST**
(ASTM D -3080)

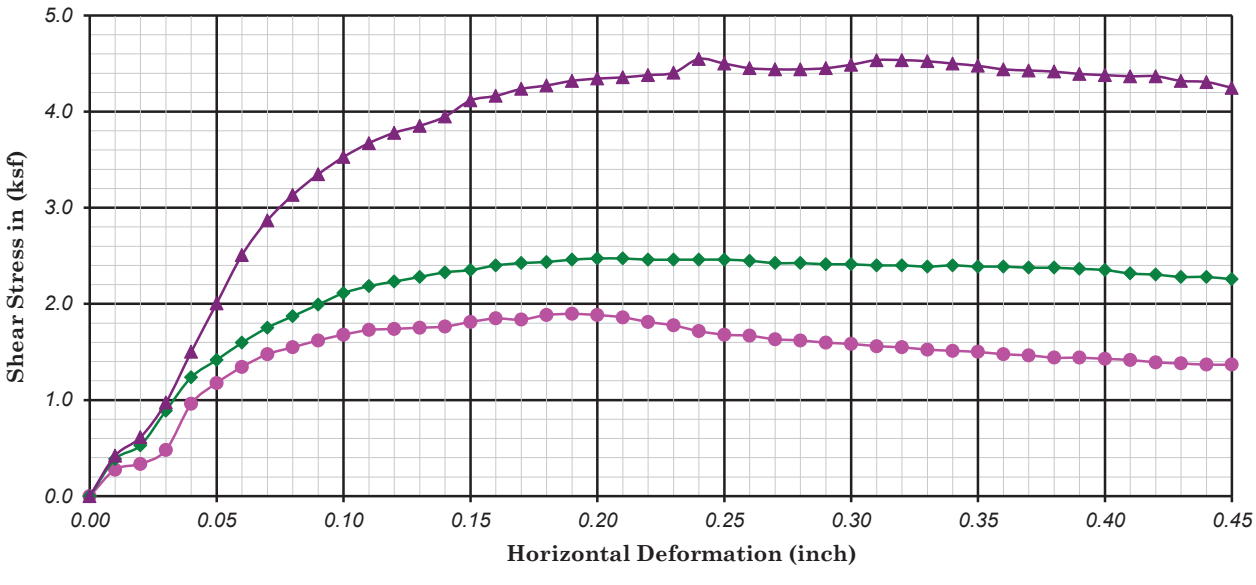
Project No. : LA1244A

Date : 10/17/16

Figure No. : B-9




| Ultimate : ○ | Shear Type : | Saturated | Undisturbed | Peak : ● |
|---|---|---|---|---|




| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Boring No. : B-11 | | Strength Intercept (C) : | 0.86 | (ksf) | Peak | 0.44 | (ksf) | Ultimate |
| Sample No. : R-3 | | | 41.08 | (kPa) | | 20.97 | (kPa) | |
| Depth (ft/m) : 6.0 | 1.83 | Friction Angle ( ϕ ) : | 24.37 | Degree | | 24.66 | Degree | |
| Description : Gray Claystone / Siltsone | | | | | Shear Rate (inch/minute) : | | 0.0025 | |

| SYMBOL | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | DRY DENSITY ($kN/m^3$) | VOID RATIO | NORMAL STRESS (ksf) | NORMAL STRESS (kPa) | PEAK STRESS (ksf) | PEAK STRESS (kPa) | ULTIMATE STRESS (ksf) | ULTIMATE STRESS (kPa) |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | 110.99 | 44.16 | 6.95 | 2.82 | 2.00 | 95.76 | 1.90 | 90.78 | 1.37 | 65.50 |
| ◆ | 95.22 | 46.38 | 7.30 | 2.63 | 4.00 | 191.52 | 2.47 | 118.36 | 2.26 | 108.02 |
| ▲ | 104.33 | 45.51 | 7.16 | 2.70 | 8.00 | 383.04 | 4.55 | 217.76 | 4.12 | 197.07 |
| | | | | | | | | | | |

GROUP DELTA

## San Pedro High School

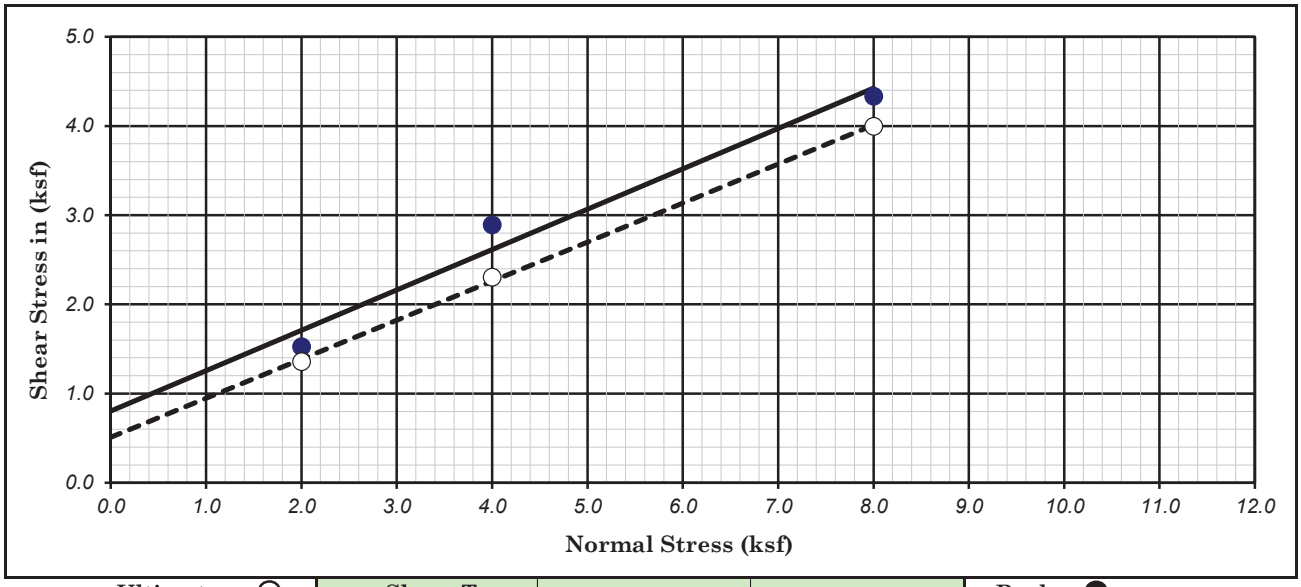
Project No. : LA1244A

Date : 10/17/16

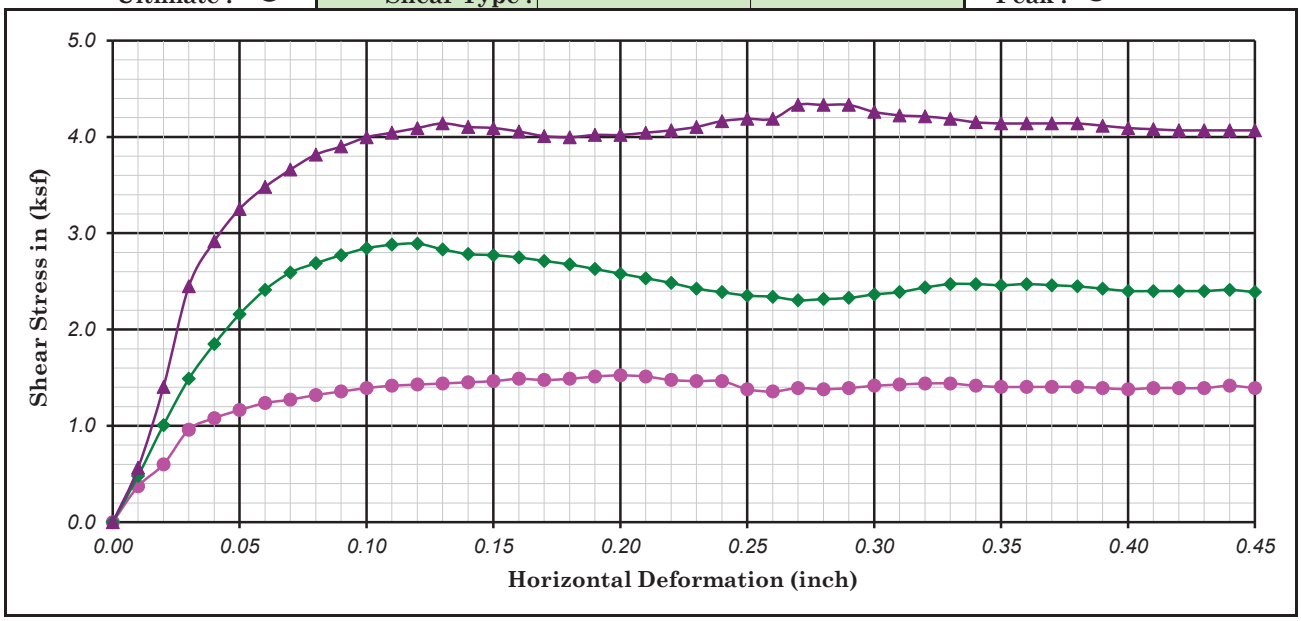
# DIRECT SHEAR TEST

(ASTM D -3080)

Figure No. : B-10




Ultimate : ○ | Shear Type : | Peak : ●




| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Boring No. : B-14 | | Strength Intercept (C) : | 0.80 | (ksf) | Peak | 0.51 | (ksf) | Ultimate |
| Sample No. : R-3 | | | 38.50 | (kPa) | | 24.42 | (kPa) | |
| Depth (ft/m) : 8.5 | 2.59 | Friction Angle ( ϕ ) : | 24.35 | Degree | | 23.63 | Degree | |
| Description : Light Olive Brown Sandy Silty Clay with Claystone / Siltstone | | | | | Shear Rate (inch/minute) : | | 0.0025 | |

| SYMBOL | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | DRY DENSITY ($kN/m^3$) | VOID RATIO | NORMAL STRESS (ksf) | NORMAL STRESS (kPa) | PEAK STRESS (ksf) | PEAK STRESS (kPa) | ULTIMATE STRESS (ksf) | ULTIMATE STRESS (kPa) |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | 40.59 | 78.59 | 12.37 | 1.14 | 2.00 | 95.76 | 1.52 | 72.97 | 1.36 | 64.93 |
| ◆ | 37.80 | 83.13 | 13.08 | 1.03 | 4.00 | 191.52 | 2.89 | 138.47 | 2.30 | 110.32 |
| ▲ | 37.98 | 83.22 | 13.10 | 1.03 | 8.00 | 383.04 | 4.33 | 207.42 | 4.00 | 191.33 |
| | | | | | | | | | | |

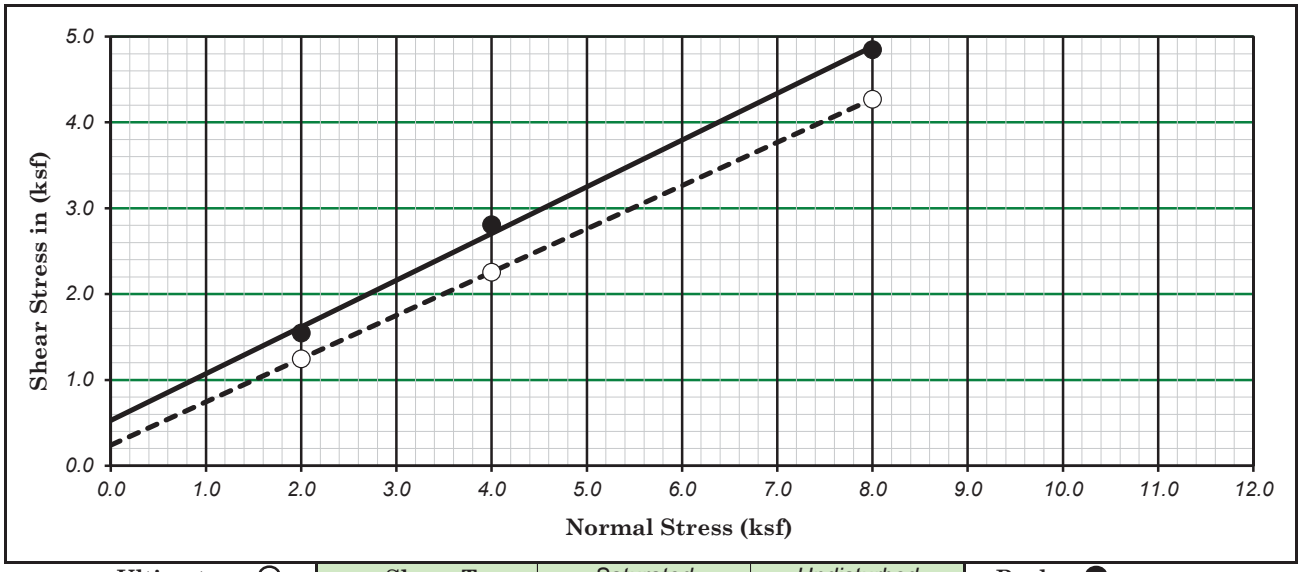
GROUP DELTA

**San Pedro High School**

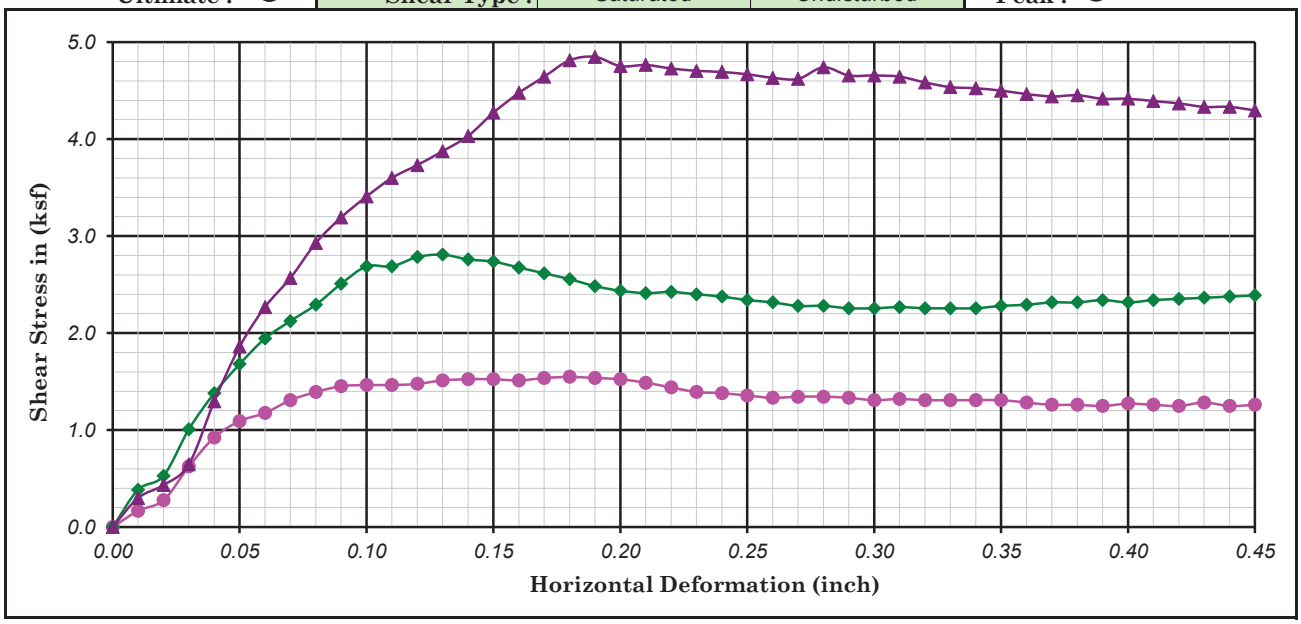
**DIRECT SHEAR TEST**
(ASTM D -3080)

Project No. : LA1244A | Date : 10/19/16

Figure No. : B-11




Ultimate : ○ | Shear Type : Saturated | Undisturbed | Peak : ●




| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Boring No. : B-11 | | Strength Intercept (C) : | 0.53 | (ksf) | Peak | 0.24 | (ksf) | Ultimate |
| Sample No. : R-4 | | | 25.28 | (kPa) | | 11.49 | (kPa) | |
| Depth (ft/m) : 11.0 | 3.36 | Friction Angle ( ϕ ) : | 28.56 | Degree | | 26.75 | Degree | |

Description : Light Yellowish Brown Claystone / Siltstone / Diatomaceous — Shear Rate (inch/minute) : 0.0025

| SYMBOL | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | DRY DENSITY ($kN/m^3$) | VOID RATIO | NORMAL STRESS (ksf) | NORMAL STRESS (kPa) | PEAK STRESS (ksf) | PEAK STRESS (kPa) | ULTIMATE STRESS (ksf) | ULTIMATE STRESS (kPa) |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | 144.44 | 36.02 | 5.67 | 3.68 | 2.00 | 95.76 | 1.55 | 74.12 | 1.25 | 59.75 |
| ◆ | 134.61 | 37.26 | 5.86 | 3.52 | 4.00 | 191.52 | 2.81 | 134.45 | 2.26 | 108.02 |
| ▲ | 137.66 | 36.54 | 5.75 | 3.61 | 8.00 | 383.04 | 4.85 | 232.12 | 4.27 | 204.54 |
| | | | | | | | | | | |

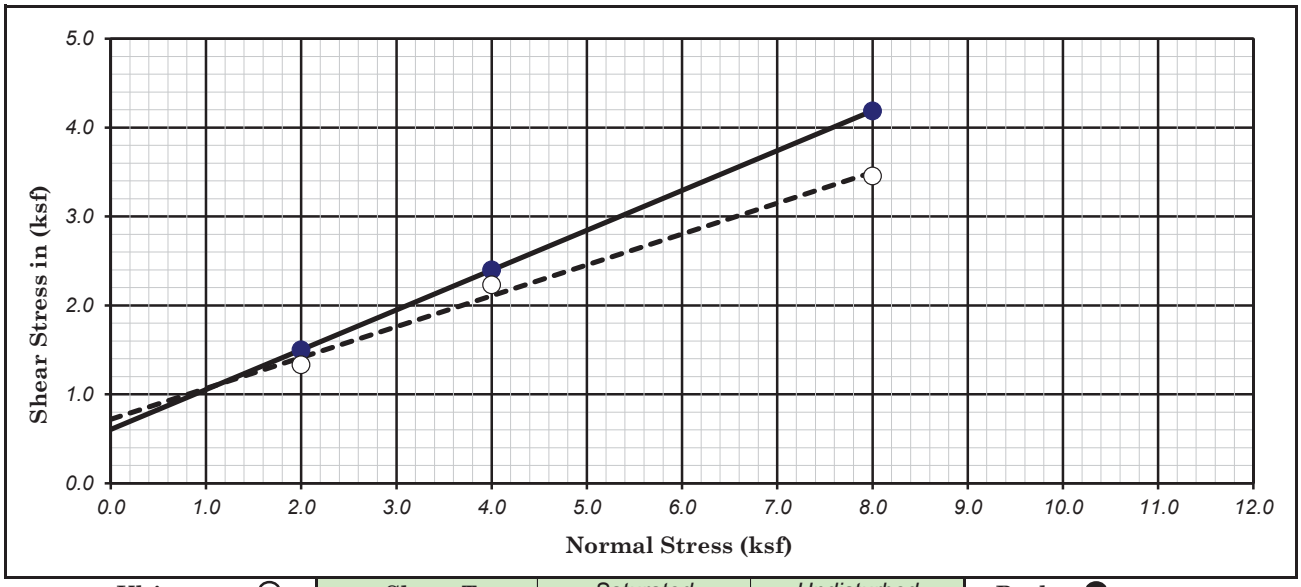
GROUP DELTA

**San Pedro High School**

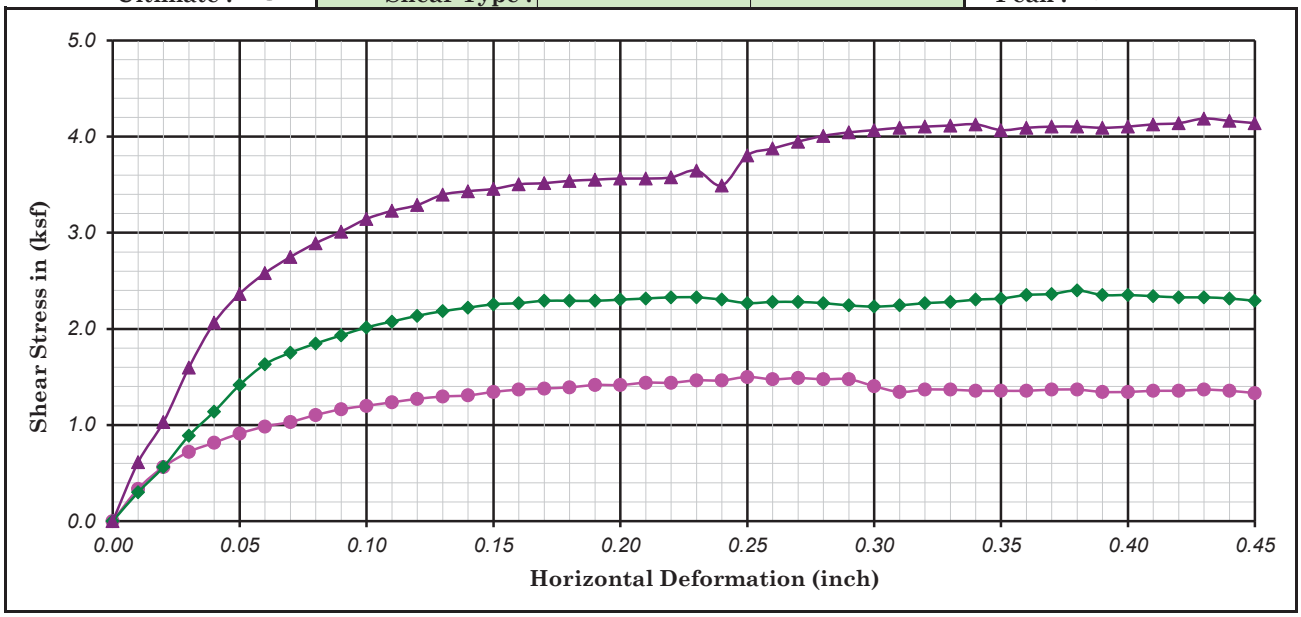
**DIRECT SHEAR TEST**
(ASTM D -3080)

Project No. : LA1244A | Date : 10/19/16

Figure No. : B-12




Ultimate : ○ | Shear Type : Saturated | Undisturbed | Peak : ●




| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Boring No. : B-8 | | Strength Intercept (C) : | 0.61 | (ksf) | Peak | 0.72 | (ksf) | Ultimate |
| Sample No. : R-5 | | | 29.02 | (kPa) | | 34.47 | (kPa) | |
| Depth (ft/m) : 16.0 | 4.88 | Friction Angle ( ϕ ) : | 24.13 | Degree | | 19.14 | Degree | |

Description : Light Gray Sandy Silty Clay - Claystone / Siltstone with Caliche — Shear Rate (inch/minute) : 0.0025

| SYMBOL | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | DRY DENSITY ($kN/m^3$) | VOID RATIO | NORMAL STRESS (ksf) | NORMAL STRESS (kPa) | PEAK STRESS (ksf) | PEAK STRESS (kPa) | ULTIMATE STRESS (ksf) | ULTIMATE STRESS (kPa) |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | 65.87 | 61.14 | 9.62 | 1.76 | 2.00 | 95.76 | 1.50 | 71.82 | 1.33 | 63.78 |
| ◆ | 76.83 | 55.83 | 8.79 | 2.02 | 4.00 | 191.52 | 2.40 | 114.91 | 2.23 | 106.87 |
| ▲ | 75.05 | 56.84 | 8.95 | 1.97 | 8.00 | 383.04 | 4.19 | 200.52 | 3.46 | 165.47 |
| | | | | | | | | | | |

GROUP DELTA

# San Pedro High School

Project No. : LA1244A | Date : 10/17/16

## DIRECT SHEAR TEST
(ASTM D -3080)

Figure No. : B-13

## CORROSIVITY TEST RESULTS
## (ASTM D516, CTM 643)

| SAMPLE | pH | RESISTIVITY (OHM-CM) | SULFATE CONTENT (%) | CHLORIDE CONTENT (%) |
|---|---|---|---|---|
| *B-4 / B-1 @ 0-5'* | *7.70* | *356* | *0.03* | *0.06* |
| *B-6 / B-1 @ 0-5'* | *7.75* | *298* | *0.01* | *0.09* |
| *B-8 / B-1 @ 0-2.5'* | *7.93* | *1303* | *< 0.01* | *< 0.01* |
| | | | | |

## CORROSIVITY PARAMETERS

| SULFATE CONTENT (%) | SULFATE EXPOSURE | CEMENT TYPE |
|---|---|---|
| 0.00 to 0.10 | Negligible | -- |
| 0.10 to 0.20 | Moderate | II, IP(MS), IS(MS) |
| 0.20 to 2.00 | Severe | V |
| Above 2.00 | Very Severe | V plus pozzolan |

| SOIL RESISTIVITY (OHM-CM) | GENERAL DEGREE OF CORROSIVITY TO FERROUS METALS |
|---|---|
| 0 to 1,000 | Very Corrosive |
| 1,000 to 2,000 | Corrosive |
| 2,000 to 5,000 | Moderately Corrosive |
| 5,000 to 10,000 | Mildly Corrosive |
| Above 10,000 | Slightly Corrosive |

| CHLORIDE (CI) CONTENT (%) | GENERAL DEGREE OF CORROSIVITY TO METALS |
|---|---|
| 0.00 to 0.03 | Negligible |
| 0.03 to 0.15 | Corrosive |
| Above 0.15 | Severely Corrosive |

GROUP DELTA CONSULTANTS
1320 South Simpson Circle
Anaheim, CA 92806
(714) 660-7500 office
(714) 660-7550 fax

Project Name: ***San Pedro High School***
Project Number: ***LA-1244A***
Laboratory Number: ***SO.4229***
Sample Number: ***Boring B-4, B-6 and B-8***
Report Date: ***10/12/2016***

# APPENDIX C
# PREVIOUS FIELD AND LABORATORY DATA

# PREVIOUS FIELD INVESTIGATIONS

# LOG OF TEST BORING

| PROJECT NAME | PROJECT NUMBER | BORING |
|---|---|---|
| L-646 LAUSD San Perdo High School | L-646 | B-1 |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| San Perdo, CA | 9/12/2005 | 9/12/2005 | 1 of 1 |

| DRILLING COMPANY | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|
| Jet Drilling | Hollow Stem Auger | V. Glisic | T. Swantko |

| DRILLING EQUIPMENT | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GROUND WATER (ft) |
|---|---|---|---|---|
| CME 75 | 6" | 31.5 | | ▼ / *na* |

**SAMPLING METHOD**
Hammer: 140 lbs., Drop: 30 in.

**NOTES**

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / FT) | DRY DENSITY (pcf) | MOISTURE (%) | OTHER TESTS | % PASSING #200 | POCKET PEN (tsf) | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | B-1 R-2 | 19 | | | PP | | 2.0 | | **Fill:** **Clay (CL)** stiff, black to brown, moist, with sand & occasional gravel |
| 5 | | | S-3 | 10 | 63 | 79.2 | PP | | 3.0-4.0 | | |
| | | | | | | | | | | | **Val Monte Formation** Highly weathered **Siltstone** thinly bedded, diatomaceous |
| 10 | | | R-4 | 28 | | | PP | | 4.5+ | | |
| 15 | | | S-5 | 11 | | | | | | | |
| 20 | | | R-6 | 9/6" 26/6" | | | PP | | 4.5+ | | |
| 25 | | | S-7 | 15 | | | | | | | |
| 30 | | | R-8 | 23 | | | | | | | Bottom of boring B-1 @ 31.5 feet. No groundwater encountered. Boring backfilled and tamped with cuttings. |

GDC LOG BORING 1B L-646 SAN PEDRO.GPJ GDCLOG.GDT 10/7/05

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2291 W. 205th Street, Suite 105
Torrance, CA 90501

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.

FIGURE A-2

# LOG OF TEST BORING

| | | | |
|---|---|---|---|
| PROJECT NAME: L-646 LAUSD San Perdo High School | PROJECT NUMBER: L-646 | BORING: B-2 | |
| SITE LOCATION: San Perdo, CA | START: 9/12/2005 | FINISH: 9/12/2005 | SHEET NO.: 1 of 1 |
| DRILLING COMPANY: Jet Drilling | DRILLING METHOD: Hollow Stem Auger | LOGGED BY: V. Glisic | CHECKED BY: T. Swantko |
| DRILLING EQUIPMENT: CME 75 | BORING DIA. (in): 6" | TOTAL DEPTH (ft): 26.5 | GROUND ELEV (ft): | DEPTH/ELEV. GROUND WATER (ft): ▼ / na |
| SAMPLING METHOD: Hammer: 140 lbs., Drop: 30 in. | NOTES: | | |

| DEPTH (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / FT) | DRY DENSITY (pcf) | MOISTURE (%) | OTHER TESTS | % PASSING #200 | POCKET PEN (tsf) | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|
| | | S-1 | 12 | 112 | 9.6 | PP | | 2.5 | | **Fill:** **Clay (CL)** stiff, moist, black to dark brown, with trace of sand & gravel |
| 5 | | R-2 | 26 | | | PP | | 2.5-3.0 | | - Grades with more sand<br>- Layer of **Silty Sand (SM)** olive brown @ 6 ft. |
| | | | | | | | | | | Highly weathered **Siltstone** diatomaceous, thinly bedded |
| 10 | | S-3 | 16 | | | | | | | |
| 15 | | R-4 | 50/3" | | | | | | | - Thin layer of dolomite @ 14 ft., hard |
| 20 | | S-5 | 13 | | | | | | | |
| 25 | | R-6 | 22 | | | | | | | |
| 30 | | | | | | | | | | Bottom of boring B-2 @ 26.5 feet.<br>No groundwater encountered.<br>Boring backfilled and tamped with cuttings. |

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FIGURE A-3

# LOG OF TEST BORING

| | | | |
|---|---|---|---|
| PROJECT NAME: L-646 LAUSD San Perdo High School | PROJECT NUMBER: L-646 | BORING: B-3 | |
| SITE LOCATION: San Perdo, CA | START: 9/12/2005 | FINISH: 9/12/2005 | SHEET NO.: 1 of 1 |
| DRILLING COMPANY: Jet Drilling | DRILLING METHOD: Hollow Stem Auger | LOGGED BY: V. Glisic | CHECKED BY: T. Swantko |
| DRILLING EQUIPMENT: CME 75 | BORING DIA. (in): 6" | TOTAL DEPTH (ft): 31.5 | GROUND ELEV (ft): |
| SAMPLING METHOD: Hammer: 140 lbs., Drop: 30 in. | NOTES: | | DEPTH/ELEV. GROUND WATER (ft): ▼ / na |

| DEPTH (feet) | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / FT) | DRY DENSITY (pcf) | MOISTURE (%) | OTHER TESTS | % PASSING #200 | POCKET PEN (tsf) | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|
| | B-1 R-2 | 23 | | 26.4 | PP | | 2.5-4.0 | **Fill:** **Clay (CL)** stiff, black to dark brown, with sand & gravel |
| 5 | S-3 | 11 | 58 | 71.5 | PP | | 2.5-4.0 | - Grades to no gravel |
| 10 | R-4 | 25 | | | PP | | 4.5+ | **Val Monte Formation** Highly weathered **Siltstone** diatomaceous, mottled light brown & gray |
| 15 | S-5 | 8 | | | | | | |
| 20 | R-6 | 17 | | | PP | | 3.0 | |
| 25 | S-7 | 5 | | | | | | |
| 30 | R-8 | 21 | | | | | | |
| | | | | | | | | Bottom of boring B-3 @ 31.5 feet. No groundwater encountered. Boring backfilled and tamped with cuttings. |

GDC_LOG_BORING_1B_L-646 SAN PEDRO.GPJ GDCLOG.GDT 10/7/05

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FIGURE A-4

# LOG OF TEST BORING

| PROJECT NAME | PROJECT NUMBER | BORING |
|---|---|---|
| L-646 LAUSD San Perdo High School | L-646 | B-4 |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| San Perdo, CA | 9/12/2005 | 9/12/2005 | 1 of 1 |

| DRILLING COMPANY | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|
| Jet Drilling | Hollow Stem Auger | V. Glisic | T. Swantko |

| DRILLING EQUIPMENT | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GROUND WATER (ft) |
|---|---|---|---|---|
| CME 75 | 6" | 26.5 | | ▼ / *na* |

**SAMPLING METHOD**
Hammer: 140 lbs., Drop: 30 in.

**NOTES**

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / FT) | DRY DENSITY (pcf) | MOISTURE (%) | OTHER TESTS | % PASSING #200 | POCKET PEN (tsf) | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | **Fill:** **Clay (CL)** stiff, black to dark brown, with sand & some gravel, piece of asphalt |
| | | X | S-1 | 11 | 98 | 26.1 | PP | | 2.5 | | |
| 5 | | | | | | | | | | | - Some roots |
| | | X | R-2 | 23 | | | PP | | 2.75 | | |
| | | | | | | | | | | | **Val Monte Formation** Highly weathered **Siltstone** diatomaceous mottled light brown |
| 10 | | X | S-3 | 4 | | | PP | | 4.5 | | |
| 15 | | X | R-4 | 28 | | | PP | | 4.5 | | |
| 20 | | X | S-5 | 9 | | | | | | | |
| 25 | | X | R-6 | 24 | | | PP | | 4.0-4.5 | | |
| | | | | | | | | | | | Bottom of boring B-4 @ feet. No groundwater encountered. Boring backfilled and tamped with cuttings. |
| 30 | | | | | | | | | | | |

GDC_LOG_BORING_1B_L-646 SAN PEDRO.GPJ GDCLOG.GDT 10/7/05

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THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.

FIGURE A-5

# LOG OF TEST BORING

| | | | |
|---|---|---|---|
| **PROJECT NAME** Dana Middle School Slope | | **PROJECT NUMBER** L-958 | **BORING** B-4 |
| **SITE LOCATION** 1501 Cabrillo Avenue, San Pedro, Ca | **START** 4/22/2011 | **FINISH** 4/22/2011 | **SHEET NO.** 1 of 3 |
| **DRILLING COMPANY** Al Roy Drilling | **DRILLING METHOD** 24" Bucket Auger | **LOGGED BY** EMH | **CHECKED BY** SK |
| **DRILLING EQUIPMENT** Earth Drill 150 | **BORING DIA. (in)** 24" | **TOTAL DEPTH (ft)** 31 | **GROUND ELEV (ft)** | **DEPTH/*ELEV.* GROUND WATER (ft)** ▼ / *na* |
| **SAMPLING METHOD** Kelly Bar: 2500 lbs., Drop: 12 in. | **NOTES** | | | |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | DRY DENSITY (pcf) | MOISTURE (%) | OTHER TESTS | % PASSING #200 | ATTERBERG LIMITS LL:PL:PI | POCKET PEN (tsf) | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | **Articial Fill (af) and/or Non Marine Terrace Cover (Qa)** |
| | | | | | | | | | | | | **Clay (CL)** , dark brown to black, slightly moist, medium plasticity, some silt sand and gravel, with brick fragments and various other deliterious materials |
| 5 | | | R-5 | 3/12 | 89 | 20.2 | | | | | | |
| | | | | | | | | | | | | **Valmonte Formation (Tmv)** |
| | | | | | | | | | | | | **Diatomaceous Shale** , white to yellow brown, thinly bedded, poor to moderate cementation, mildly fissile, with occasional clayey diatomaceous beds. |
| | | | | | | | | | | | | -Black staining |
| | | | | | | | | | | | | -Unaltered volcanic ash bed<br>-Bedding: N32E 65S |
| 10 | | | R-10 | 2/12 | 52 | 71.1 | | | | | | |
| | | | | | | | | | | | | -Bedding: N50E 23S |
| | | | | | | | | | | | | -ferrous stains along bedding |
| | | | | | | | | | | | | -Chert nodule, within wet diatomaceous shale |

GDC_LOG_BORING_1A_LA2 L-958 BORING LOGS.GPJ GDCLOG.GDT 6/17/11

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FIGURE A-5 a

# LOG OF TEST BORING

| PROJECT NAME | PROJECT NUMBER | BORING |
|---|---|---|
| Dana Middle School Slope | L-958 | **B-4** |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| 1501 Cabrillo Avenue, San Pedro, Ca | 4/22/2011 | 4/22/2011 | 2 of 3 |

| DRILLING COMPANY | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|
| Al Roy Drilling | 24" Bucket Auger | EMH | SK |

| DRILLING EQUIPMENT | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GROUND WATER (ft) |
|---|---|---|---|---|
| Earth Drill 150 | 24" | 31 | | ▼ / *na* |

**SAMPLING METHOD**
Kelly Bar: 2500 lbs., Drop: 12 in.

**NOTES**

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | DRY DENSITY (pcf) | MOISTURE (%) | OTHER TESTS | % PASSING #200 | ATTERBERG LIMITS LL:PL:PI | POCKET PEN (tsf) | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | R-15 | 2/12 | 43 | 92.1 | | | | 4.5 | | Diatomaceous shale bedding: N55E 60S |
| 20 | | | | | | | | | | | | Diatomaceous shale bedding: N41E 65S<br>-6" diameter Dolostone, vertical joints<br>-Carbonate filled fractures |
| 25 | | | R-25 | 7/12 | 52 | 66.1 | | | | >4.5 | | -Black ferrous staining across bedding |

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FIGURE A-5 b

# LOG OF TEST BORING

| PROJECT NAME | PROJECT NUMBER | BORING |
|---|---|---|
| Dana Middle School Slope | L-958 | **B-4** |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| 1501 Cabrillo Avenue, San Pedro, Ca | 4/22/2011 | 4/22/2011 | 3 of 3 |

| DRILLING COMPANY | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|
| Al Roy Drilling | 24" Bucket Auger | EMH | SK |

| DRILLING EQUIPMENT | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GROUND WATER (ft) |
|---|---|---|---|---|
| Earth Drill 150 | 24" | 31 | | ▼ / *na* |

**SAMPLING METHOD**
Kelly Bar: 2500 lbs., Drop: 12 in.

**NOTES**

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | DRY DENSITY (pcf) | MOISTURE (%) | OTHER TESTS | % PASSING #200 | ATTERBERG LIMITS LL:PL:PI | POCKET PEN (tsf) | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | R-30 | 5/12 | 47 | 62.9 | | | | >4.5 | | |

Total Depth: 31 Feet
No groundwater encountered
Boring backfilled with tamped cuttings upon completion

35

40

GDC_LOG_BORING_1A_LA2 L-958 BORING LOGS.GPJ GDCLOG.GDT 6/17/11

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FIGURE A-5 c

# LOG OF TEST BORING

| | | | |
|---|---|---|---|
| **PROJECT NAME** Dana Middle School Slope | | **PROJECT NUMBER** L-958 | **BORING** **B-5** |
| **SITE LOCATION** 1501 Cabrillo Avenue, San Pedro, Ca | **START** 6/14/2011 | **FINISH** 6/14/2011 | **SHEET NO.** 1 of 3 |
| **DRILLING COMPANY** Al Roy Drilling | **DRILLING METHOD** 24" Bucket Auger | **LOGGED BY** EMH | **CHECKED BY** SK |
| **DRILLING EQUIPMENT** Earth Drill 150 | **BORING DIA. (in)** 24" | **TOTAL DEPTH (ft)** 30 | **GROUND ELEV (ft)** | **DEPTH/*ELEV.* GROUND WATER (ft)** ▼ / *na* |
| **SAMPLING METHOD** Kelly Bar: 2500 lbs., Drop: 12 in. | **NOTES** | | | |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | DRY DENSITY (pcf) | MOISTURE (%) | OTHER TESTS | % PASSING #200 | ATTERBERG LIMITS LL:PL:PI | POCKET PEN (tsf) | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | B-1 | | | | | | | | | **Non-Marine Terrace Cover (Qa)**<br><br>**Clay (CL)** , dark gray, moist to wet, some sand and silt, carbonate lenses |
| 5 | | | R-5 | 2/12" | 48 | 66.5 | | | | >4.5 | | **Weathered Bedrock**<br>Very weathered diatomaceous shale with carbonate filled fractures, iron coated banded layers throughout, clayey with abundandant bentonite, some gypsum mineralization, soft and wet<br><br>**Diatomaceous Shale** , light gray, moist, dense, some bentonite beds, slightly weathered |
| 10 | | | R-10 | Push/6" 1/6" | 47 | 83.1 | | | | >4.5 | | -Dolostone, very jointed and fractured, 9 inches thick<br><br>**Claystone** , mottled yellow-brown to olive green, moist, diatomaceous, some silt, slightly plastic<br><br>-Thin Bed: N18W 64SW<br><br>-Thin Bed: N0E 59E<br>-Less weathering<br><br>-Diatomitic Shale, well bedded<br><br>-Thin Bed: N18W 64SW |

GDC_LOG_BORING_1A_LA2 L-958 BORING LOGS.GPJ GDCLOG.GDT 6/17/11

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FIGURE A-6 a

# LOG OF TEST BORING

| PROJECT NAME | PROJECT NUMBER | BORING |
|---|---|---|
| Dana Middle School Slope | L-958 | **B-5** |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| 1501 Cabrillo Avenue, San Pedro, Ca | 6/14/2011 | 6/14/2011 | 2 of 3 |

| DRILLING COMPANY | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|
| Al Roy Drilling | 24" Bucket Auger | EMH | SK |

| DRILLING EQUIPMENT | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GROUND WATER (ft) |
|---|---|---|---|---|
| Earth Drill 150 | 24" | 30 | | ▼ / *na* |

**SAMPLING METHOD**: Kelly Bar: 2500 lbs., Drop: 12 in.

**NOTES**:

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | DRY DENSITY (pcf) | MOISTURE (%) | OTHER TESTS | % PASSING #200 | ATTERBERG LIMITS LL:PL:PI | POCKET PEN (tsf) | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | R-15 | 1/12" | 41 | 103.1 | | | | >4.5 | | **Diatomaceous Shale** , light gray to orange brown, moist, well bedded<br>Bedding: N18W 14SW<br><br>Thin Diatomaceous Bed: N9W 22 S<br><br>Diatomaceous Bed: N10E 22SE<br>**Valmonte Formation (Tmv)** |
| 20 | | | | | | | | | | | | **Diatomaceous Shale** , white to yellow brown, thinly bedded, moderate cementation, mildly fissile, with occasional clayey diatomaceous beds.<br>-Difficult to chip with hammer<br>-Dolostone, 1.5 feet thick |
| 25 | | | R-25 | 3/12" | 46 | 84.7 | | | | >4.5 | | **Claystone** , medium gray to light gray, humid to moist, very hard, thin beds of sandstone/siltstone |

GDC_LOG_BORING_1A_LA2 L-958 BORING LOGS.GPJ GDCLOG.GDT 6/17/11

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FIGURE A-6 b

# LOG OF TEST BORING

| PROJECT NAME | PROJECT NUMBER | BORING |
|---|---|---|
| Dana Middle School Slope | L-958 | **B-5** |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| 1501 Cabrillo Avenue, San Pedro, Ca | 6/14/2011 | 6/14/2011 | 3 of 3 |

| DRILLING COMPANY | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|
| Al Roy Drilling | 24" Bucket Auger | EMH | SK |

| DRILLING EQUIPMENT | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GROUND WATER (ft) |
|---|---|---|---|---|
| Earth Drill 150 | 24" | 30 | | ▼ / *na* |

**SAMPLING METHOD**
Kelly Bar: 2500 lbs., Drop: 12 in.

**NOTES**

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | DRY DENSITY (pcf) | MOISTURE (%) | OTHER TESTS | % PASSING #200 | ATTERBERG LIMITS LL:PL:PI | POCKET PEN (tsf) | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | -Dolostone, no sample |
| | | | | | | | | | | | | Total Depth: 30 Feet<br>Groundwater: Not encountered<br>Boring backfilled with tamped soil cuttings |
| 35 | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | |

GDC_LOG_BORING_1A_LA2 L-958 BORING LOGS.GPJ GDCLOG.GDT 6/17/11

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FIGURE A-6 c

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| San Pedro High School | LA-1172 | B-1 |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| San Pedro, CA | 11/27/2013 | 11/27/2013 | 1 of 1 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Choice Drilling | Mobile B-61 | Hollow Stem Auger | S. Gunawan | T. Swantko |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| Hammer: 140 lbs., Drop: 30 in. | 93 | 8 | 10 | 166 | ▽ / *na* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| Mod. Cal. (2.4") | | ▼ / *na* AFTER DRILLING |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | MOISTURE (%) | DRY DENSITY (PCF) | PASSING #200 (%) | ATTERBERG LIMITS (LL:PL:PI) | POCKET PEN (TSF) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 165 | | B-1 | | | 21.4 | | | | | | | | **ASPHALT (4")**<br>**Lean CLAY (CL)**; dark gray; moist; mostly fines; few fine SAND; medium plasticity. |
| 5 | 160 | | R-2 | 9<br>9<br>11 | 20 | 23.8 | 86 | | | >4.5 | | | | - Hard. |
| | | | R-3 | 10<br>20<br>26 | 46 | 46.0 | 67 | | | >4.5 | | | | **Bedrock - Valmonte Formation**; light tan mottled with white; moist; highly weathered **Siltstone**; thinly bedded; diatomaceous. |
| 10 | 155 | | | | | | | | | | | | | Boring terminated at 10 feet.<br>Groundwater not encountered.<br>Boring converted to temporary well for percolation test. |
| 15 | 150 | | | | | | | | | | | | | |

GDC_LOG_BORING_2011 LA1172 BORING LOGS.GPJ GDCLOG.GDT 12/15/13

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FIGURE
A-2

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| San Pedro High School | LA-1172 | B-2 |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| San Pedro, CA | 11/27/2013 | 11/27/2013 | 1 of 1 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Choice Drilling | Mobile B-61 | Hollow Stem Auger | S. Gunawan | T. Swantko |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| Hammer: 140 lbs., Drop: 30 in. | 93 | 8 | 10 | 166.5 | ▽ / *na* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| Mod. Cal. (2.4") | | ▼ / *na* AFTER DRILLING |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | MOISTURE (%) | DRY DENSITY (PCF) | PASSING #200 (%) | ATTERBERG LIMITS (LL:PL:PI) | POCKET PEN (TSF) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 165 | | B-1 | | | 22.8 | | | | | | | | **ASPHALT (4")** |
| | | | | | | | | | | | | | | **Lean CLAY (CL)**; dark gray brown mottled with brown; moist; mostly fines; few fine SAND; medium plasticity. |
| 5 | | | R-2 | 11<br>17<br>23 | 40 | 60.4 | 59 | | | >4.5 | | | | **Bedrock - Valmonte Formation**; light tan mottled with white; moist; highly weathered **Siltstone**; thinly bedded; diatomaceous. |
| | 160 | | | | | | | | | | | | | Free water inside sampler. |
| | | | R-3 | 10<br>20<br>21 | 41 | 74.4 | 52 | | | >4.5 | | | | |
| 10 | | | | | | | | | | | | | | Boring terminated at 10 feet.<br>Groundwater not encountered.<br>Boring converted to temporary well for percolation test. |
| | 155 | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| | 150 | | | | | | | | | | | | | |

GDC_LOG_BORING_2011 LA1172 BORING LOGS.GPJ GDCLOG.GDT 12/15/13

GROUP DELTA CONSULTANTS, INC.
370 Amaploa Ave., Suite 212
Torrance, CA 90501

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.

FIGURE
A-3

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| San Pedro High School | LA-1172 | B-3 |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| San Pedro, CA | 11/27/2013 | 11/27/2013 | 1 of 1 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Choice Drilling | Mobile B-61 | Hollow Stem Auger | S. Gunawan | T. Swantko |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| Hammer: 140 lbs., Drop: 30 in. | 93 | 8 | 6.5 | 169 | ▽ / *na* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| Mod. Cal. (2.4") | | ▼ / *na* AFTER DRILLING |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | MOISTURE (%) | DRY DENSITY (PCF) | PASSING #200 (%) | ATTERBERG LIMITS (LL:PL:PI) | POCKET PEN (TSF) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | B-1 | | | 13.6 | | | | | C | | | **Lean CLAY (CL)**; dark brownish gray; moist; mostly fines; few fine SAND; trace fine GRAVEL; trace concrete pieces; low plasticity. |
| | 165 | | | | | | | | | | | | | |
| 5 | | | R-2 | 11<br>10<br>12 | 22 | 20.8 | 95 | | | 4.5 | | | | - Hard. |
| | | | | | | | | | | | | | | Boring terminated at 6.5 feet.<br>Groundwater not encountered.<br>Boring backfilled with soil cuttings. |
| | 160 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| | 155 | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| | 150 | | | | | | | | | | | | | |

GDC_LOG_BORING_2011 LA1172 BORING LOGS.GPJ GDCLOG.GDT 12/15/13

GROUP DELTA CONSULTANTS, INC.
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Torrance, CA 90501

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FIGURE
A-4

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| San Pedro High School | LA-1172 | **B-4** |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| San Pedro, CA | 11/27/2013 | 11/27/2013 | 1 of 1 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Choice Drilling | Mobile B-61 | Hollow Stem Auger | S. Gunawan | T. Swantko |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| Hammer: 140 lbs., Drop: 30 in. | 93 | 8 | 6.5 | 169 | ▽ / *na* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| Mod. Cal. (2.4") | | ▼ / *na* AFTER DRILLING |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | MOISTURE (%) | DRY DENSITY (PCF) | PASSING #200 (%) | ATTERBERG LIMITS (LL:PL:PI) | POCKET PEN (TSF) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 165 | | B-1 | | | 10.8 | | 34 | | | EI | | | **Lean CLAY (CL)**; dark brown; moist; mostly fines; few fine SAND; low to medium plasticity; trace tree roots. |
| 5 | | | R-2 | 15<br>20<br>27 | 47 | 20.1 | 108 | | | >4.5 | | | | - Hard; trace fine SAND; medium plasticity. |
| | | | | | | | | | | | | | | Boring terminated at 6.5 feet.<br>Groundwater not encountered.<br>Boring backfilled with soil cuttings. |
| 10 | 160 | | | | | | | | | | | | | |
| 15 | 155 | | | | | | | | | | | | | |
| | 150 | | | | | | | | | | | | | |

GDC_LOG_BORING_2011 LA1172 BORING LOGS.GPJ GDCLOG.GDT 12/15/13

GROUP DELTA CONSULTANTS, INC.
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FIGURE
A-5

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| San Pedro High School | LA-1172 | **B-5** |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| San Pedro, CA | 11/27/2013 | 11/27/2013 | 1 of 1 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Choice Drilling | Mobile B-61 | Hollow Stem Auger | S. Gunawan | T. Swantko |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| Hammer: 140 lbs., Drop: 30 in. | 93 | 8 | 6.5 | 169 | ▽ / *na* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| Mod. Cal. (2.4") | | ▼ / *na* AFTER DRILLING |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | MOISTURE (%) | DRY DENSITY (PCF) | PASSING #200 (%) | ATTERBERG LIMITS (LL:PL:PI) | POCKET PEN (TSF) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | **ASPHALT (3")** |
| | | | | | | | | | | | | | | **CONCRETE (4")** |
| | | | | | | | | | | | | | | Red clay brick fragments |
| | | | B-1 | | | 24.6 | | | | | EI R | | | **Lean CLAY (CL)** dark brownish gray; moist; mostly fines; few fine SAND; few organics; medium plasticity. |
| | 165 | | | | | | | | | | | | | |
| 5 | | | R-2 | 6 6 9 | 15 | 26.0 | 90 | | | 4.5 | | | | - Hard; dark brown; few concrete fragments 1/4" in diameter. |
| | | | | | | | | | | | | | | Boring terminated at 6.5 feet. |
| | | | | | | | | | | | | | | Groundwater not encountered. |
| | | | | | | | | | | | | | | Boring backfilled with soil cuttings and patched with asphalt. |
| | 160 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| | 155 | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| | 150 | | | | | | | | | | | | | |

GDC_LOG_BORING_2011 LA1172 BORING LOGS.GPJ GDCLOG.GDT 12/15/13

GROUP DELTA CONSULTANTS, INC.
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FIGURE
A-6

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| San Pedro High School | LA-1172 | **B-6** |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| San Pedro, CA | 11/27/2013 | 11/27/2013 | 1 of 1 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Choice Drilling | Mobile B-61 | Hollow Stem Auger | S. Gunawan | T. Swantko |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| Hammer: 140 lbs., Drop: 30 in. | 93 | 8 | 6.5 | 168 | ▽ / *na* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| Mod. Cal. (2.4") | | ▼ / *na* AFTER DRILLING |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | MOISTURE (%) | DRY DENSITY (PCF) | PASSING #200 (%) | ATTERBERG LIMITS (LL:PL:PI) | POCKET PEN (TSF) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | **ASPHALT (4")** |
| | | | | | | | | | | | | | | **Silty SAND (SM) with Fat CLAY (CL) clasts**, yellowish brown to dark brown; moist; nearly equal amount of SAND and fines; few GRAVEL; high plasticity fines; trace asphalt and bedrock fragments. |
| | 165 | | B-1 | | | 14.9 | | 43 | 55<br>19<br>36 | | | | | |
| | | | | | | | | | | | | | | - Dark gray. |
| 5 | | | R-2 | 11<br>16<br>23 | 39 | 19.5 | 108 | | | >4.5 | | | | - Hard. |
| | 160 | | | | | | | | | | | | | Boring terminated at 6.5 feet.<br>Groundwater not encountered.<br>Boring backfilled with soil cuttings and patched with asphalt. |
| 10 | | | | | | | | | | | | | | |
| | 155 | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| | 150 | | | | | | | | | | | | | |

GDC_LOG_BORING_2011 LA1172 BORING LOGS.GPJ GDCLOG.GDT 12/15/13

GROUP DELTA CONSULTANTS, INC.
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FIGURE
A-7

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD San Pedro HS Renovate Bldg 2 | LA1204 | B-1 |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| San Pedro, CA | 7/2/2014 | 7/2/2014 | 1 of 2 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Martini | CME 75 | Hollow Stem Auger | SS | PK |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| Hammer: 140 lbs., Drop: 30 in. | | 8 | 36.5 | 186 | ▽ / *na* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| SPT (1.4"), CAL (2.4") | | ▼ / *na* AFTER DRILLING |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | MOISTURE (%) | DRY DENSITY (PCF) | PASSING #200 (%) | ATTERBERG LIMITS (LL:PL:PI) | POCKET PEN (TSF) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 185 | | | | | | | | | | | | | **Grass over 6" Top Soil** |
| | | | | | | | | | | | | | | **SILT (ML)**; red brown; medium stiff. |
| | | | | | | | | | | | | | | **Fat CLAY (CH)**; very stiff; drak gray; moist; roots; caliche stringers. |
| | | | B-1 | | | 15.9 | | | | | CR EI | | | |
| 5 | | | | 6 | | | | | | | | | | |
| | 180 | | R-2 | 10 13 | 23 | 18.9 | 104.7 | | 54 17 37 | 4.25 | C | | | - Hard. |
| 10 | | | | 2 | | | | | | | | | | |
| | 175 | | S-3 | 5 9 | 15 | 24.1 | | | | 3 | | | | - Very stiff; yellow brown. |
| | | | | | | | | | | | | | | - Wet. |
| 15 | | | | 5 | | | | | | | | | | |
| | 170 | | R-4 | 10 15 | 25 | 101.6 | 38.7 | | | 4.5 | DS | | | **Clayey SILT (ML)**; hard; tan; moist. |
| 20 | | | | 2 | | | | | | | | | | |
| | 165 | | S-5 | 4 11 | 15 | 56.5 | | | | 2.25 | | | | **SEDIMENTARY ROCK (SILTSTONE)** yellow brown; moist; laminated; closely fractured, fractures closed. - Weathered bedrock. |

GDC_LOG_BORING_2011 LA1204 BORING LOGS.GPJ GDCLOG.GDT 7/28/14

GROUP DELTA CONSULTANTS, INC.
370 Amaploa Ave., Suite 212
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FIGURE
A-2 a

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD San Pedro HS Renovate Bldg 2 | LA1204 | B-1 |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| San Pedro, CA | 7/2/2014 | 7/2/2014 | 2 of 2 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Martini | CME 75 | Hollow Stem Auger | SS | PK |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| Hammer: 140 lbs., Drop: 30 in. | | 8 | 36.5 | 186 | ▽ / *na* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| SPT (1.4"), CAL (2.4") | | ▼ / *na* AFTER DRILLING |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | MOISTURE (%) | DRY DENSITY (PCF) | PASSING #200 (%) | ATTERBERG LIMITS (LL:PL:PI) | POCKET PEN (TSF) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 160 | | R-6 | 7<br>14<br>13 | 27 | 38.9 | 73.2 | | | | | | | **SEDIMENTARY ROCK (SILTSTONE)** yellow brown; laminated to thinly bedded;steeply dipping. |
| | | | | | | | | | | | | | | - Hard bedrock. |
| 30 | 155 | | S-7 | 2<br>4<br>4 | 8 | 62.7 | | | | 2.25 | | | | - Stiff; yellow brown to olive brown; moist; laminated, closely fractured, closed. |
| 35 | 150 | | R-8 | 11<br>11<br>12 | 23 | 49.4 | 71.1 | | | 3.5 | | | | - Medium brown to olive brown; moist; poorly developed bedding, disturbed bedding; little crushed gypsum on bedding surface. |
| | | | | | | | | | | | | | | Boring terminated at 36.5 feet bgs.<br>Groundwater not encountered.<br>Boring backfilled with soil cuttings. |
| 40 | 145 | | | | | | | | | | | | | |
| 45 | 140 | | | | | | | | | | | | | |

GDC_LOG_BORING_2011 LA1204 BORING LOGS.GPJ GDCLOG.GDT 7/28/14

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Torrance, CA 90501

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FIGURE
A-2 b

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD San Pedro HS Renovate Bldg 2 | LA1204 | B-2 |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| San Pedro, CA | 7/2/2014 | 7/2/2014 | 1 of 1 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Martini | CME 75 | Hollow Stem Auger | SS | PK |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| Hammer: 140 lbs., Drop: 30 in. | | 8 | 21.5 | 221.5 | ▽ / *na* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| SPT (1.4"), CAL (2.4") | | ▼ / *na* AFTER DRILLING |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | MOISTURE (%) | DRY DENSITY (PCF) | PASSING #200 (%) | ATTERBERG LIMITS (LL:PL:PI) | POCKET PEN (TSF) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 220 | | | | | | | | | | | | | **4.5" AC** |
| | | | | | | | | | | | | | | **Silty CLAY (CL)**; medium to dark gray; little SAND and tuff. - Some possible Fill |
| 5 | | | S-1 | 4 4 4 | 8 | 21.5 | | | | 4.5 | | | | |
| | 215 | | | | | | | | | | | | | - Hard; moist. |
| | | | B-2 | | | 28.5 | | | | | CR El | | | **Lean CLAY (CL)**; light tan; moist. |
| 10 | | | R-3 | 11 13 14 | 27 | 15.8 | 81.8 | | 47 28 19 | 4.5 | C | | | - Hard; light tan to gray; moist. |
| | 210 | | | | | | | | | | | | | **SEDIMENTARY ROCK (SILTSTONE)** stiff; tan, reddish oxidation; moist; bedding closely fractured; highly weathered bedrock. |
| 15 | | | S-4 | 2 2 3 | 5 | 35.9 | | | | 3 | | | | |
| | 205 | | | | | | | | | | | | | |
| 20 | | | R-5 | 17 19 19 | 38 | 31.6 | 81.3 | | | 4.5 | DS | | | - Very stiff; light gray; moist; thinly bedded, yellow and orange oxidation along bedding; weathered bedrock. |
| | 200 | | | | | | | | | | | | | Total depth: 21.5 feet bgs. Groundwater not encountered. Boring backfilled with soil cuttings and capped with asphalt patch. |

GDC_LOG_BORING_2011 LA1204 BORING LOGS.GPJ GDCLOG.GDT 7/28/14

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FIGURE
A-3

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD-SAN PEDRO HS | LA-1244 | B-1 |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| San Pedro, CA | 6/12/2015 | 6/12/2015 | 1 of 2 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Cascade | CME 85 | Hollow Stem Auger | AW | TS |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| Hammer: 140 lbs., Drop: 30 in. | | 8" | 30 | | ▽ N/E / *na* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| MOD. CAL & SPT | | ▼ / *na* AFTER DRILLING |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | MOISTURE (%) | DRY DENSITY (PCF) | PASSING #200 (%) | ATTERBERG LIMITS (LL:PL:PI) | POCKET PEN (TSF) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Asphalt = 3 Inches |
| | | | B-1 | | | | | | | | El Corr | | | **SANDY lean CLAY (CL)** medium stiff; dark brown; moist; mostly fines; some SAND; medium plasticity. |
| | | | | | | | | | | | | | | **SEDIMENTARY ROCK (CLAYSTONE)** massive; light gray; moderately weathered; soft; moist; diatomaceous; chalky. |
| 5 | | | R-2 | 6<br>10<br>12 | 22 | 42.3 | 69.6 | | | | Shear Cons | | | -Fresh to Slightly weathered. |
| | | | R-3 | 25<br>50 | 50 | 34.9 | 66.4 | | | | | | | -Hard; dry. |
| 10 | | | R-4 | 6<br>10<br>15 | 25 | 87.0 | 47.1 | | | | Cons | | | -Olive brown; soft; moist. |
| 15 | | | S-5 | 10<br>12<br>12 | 24 | 56.5 | | | | 3.5 | | | | |
| 20 | | | R-6 | 6<br>8<br>10 | 18 | 75.7 | 53.2 | | | >4.5 | | | | |

GDC_LOG_BORING_2011 LA1244.GPJ GDCLOG.GDT 7/14/15

GROUP DELTA CONSULTANTS, INC.
370 Amaploa Ave., Suite 212
Torrance, CA 90501

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.

FIGURE
A-1 a

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD-SAN PEDRO HS | LA-1244 | B-1 |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| San Pedro, CA | 6/12/2015 | 6/12/2015 | 2 of 2 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Cascade | CME 85 | Hollow Stem Auger | AW | TS |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| Hammer: 140 lbs., Drop: 30 in. | | 8" | 30 | | ▽ N/E / *na* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| MOD. CAL & SPT | | ▼ / *na* AFTER DRILLING |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | MOISTURE (%) | DRY DENSITY (PCF) | PASSING #200 (%) | ATTERBERG LIMITS (LL:PL:PI) | POCKET PEN (TSF) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | S-7 | 6<br>7<br>8 | 15 | 84.9 | | | | >4.5 | | | | -Reddish Brown. |
| 30 | | | R-8 | 6<br>7<br>7 | 14 | 92.2 | 45.7 | | | 3.75 | | | | Total Depth: 30.0 Feet.<br>Groundwater: Not Encountered during drilling.<br>Boring backfilled with native fillings.<br>Topped with cold patch. |
| 35 | | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | | |

GDC_LOG_BORING_2011 LA1244.GPJ GDCLOG.GDT 7/14/15

GROUP DELTA CONSULTANTS, INC.
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FIGURE
A-1 b

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD-SAN PEDRO HS | LA-1244 | B-2 |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| San Pedro, CA | 6/20/2015 | 6/20/2015 | 1 of 2 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Cascade | CME 75 LAR | Hollow Stem Auger | AW | TS |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| Hammer: 140 lbs., Drop: 30 in. | 76.7 | 8" | 30 | | ▽ N/E / *na* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| MOD. CAL & SPT | | ▼ / *na* AFTER DRILLING |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | MOISTURE (%) | DRY DENSITY (PCF) | PASSING #200 (%) | ATTERBERG LIMITS (LL:PL:PI) | POCKET PEN (TSF) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | B-1 | | | | | | 64<br>31<br>33 | | | | | Asphalt = 5 inches<br>**SANDY fat CLAY (CL)**; soft; dark brown; moist; mostly fines; little to some SAND; high platicity. |
| 5 | | | S-2 | 4<br>9<br>12 | 21 | 86.7 | | | | 2.0 | | | | **SEDIMENTARY ROCK (CLAYSTONE)**; massive; yellowish brown; moderately weathered; soft; moist; diatomaceous; chalky. |
| 10 | | | R-3 | 3<br>10<br>17 | 27 | 49.6 | 58.1 | | | 4.0 | Shear Cons | | | |
| 15 | | | S-4 | 2<br>4<br>7 | 11 | 64.9 | | | | 2.0 | | | | -Reddish brown. |
| 20 | | | R-5 | P<br>6<br>13 | 19 | 79.0 | 48.4 | | | 3.5 | | | | |

GDC_LOG_BORING_2011 LA1244.GPJ GDCLOG.GDT 7/14/15

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FIGURE
A-2 a

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD-SAN PEDRO HS | LA-1244 | **B-2** |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| San Pedro, CA | 6/20/2015 | 6/20/2015 | 2 of 2 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Cascade | CME 75 LAR | Hollow Stem Auger | AW | TS |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| Hammer: 140 lbs., Drop: 30 in. | 76.7 | 8" | 30 | | ▽ N/E / *na* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| MOD. CAL & SPT | | ▼ / *na* AFTER DRILLING |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | MOISTURE (%) | DRY DENSITY (PCF) | PASSING #200 (%) | ATTERBERG LIMITS (LL:PL:PI) | POCKET PEN (TSF) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | S-6 | 2<br>21<br>24 | 45 | 16.1 | | | | 1.0 | | | | -Dark brown.<br>-Yellowish brown to gray. |
| 30 | | | R-7 | 3<br>9<br>14 | 23 | 93.7 | 44.5 | | | 4.5 | | | | -Reddish brown.<br>Total Depth: 30.0 Feet.<br>Groundwater: Not Encountered during excavation.<br>Boring backfilled with native fillings.<br>Topped with cold patch. |
| 35 | | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | | |

GDC_LOG_BORING_2011 LA1244.GPJ GDCLOG.GDT 7/14/15

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FIGURE
A-2 b

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD-SAN PEDRO HS | LA-1244 | B-3 |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| San Pedro, CA | 6/20/2015 | 6/20/2015 | 1 of 2 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Cascade | CME 75 LAR | Hollow Stem Auger | AW | TS |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| Hammer: 140 lbs., Drop: 30 in. | 76.7 | 8" | 30 | | ▽ N/E / *na* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| MOD. CAL & SPT | | ▼ / *na* AFTER DRILLING |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | MOISTURE (%) | DRY DENSITY (PCF) | PASSING #200 (%) | ATTERBERG LIMITS (LL:PL:PI) | POCKET PEN (TSF) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | B-1 | | | | | | | | El Corr | | | Asphalt= 4 Inches<br>BASE = 6 inches **SILTY SAND with GRAVEL (SM)** moist; mostly SAND; little to some fines; little GRAVEL.<br>**SANDY fat CLAY (CH)**; hard; brown; moist; mostly fines; little SAND; trace GRAVEL; high plasticity. |
| 5 | | | R-1 | 10<br>16<br>17 | 33 | 19.5 | | 77% | | | | | | -Very stiff. |
| 10 | | | S-2 | 9<br>8<br>16 | 24 | 36.8 | | | 80<br>32<br>48 | 3.0 | | | | **SEDIMENTARY ROCK (CLAYSTONE)** massive; yellowish brown; moderately weathered; soft; moist; diatomaceous; chalky. |
| 15 | | | R-3 | 6<br>20<br>21 | 41 | 15.2 | 97.8 | | | | | | | -Reddish to yellowish brown; moderately hard. |
| 20 | | | S-4 | 3<br>16<br>11 | 27 | 44.5 | 83.3 | | | 2.0 | | | | |

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FIGURE
A-3 a

# BORING RECORD

| PROJECT NAME | PROJECT NUMBER | HOLE ID |
|---|---|---|
| LAUSD-SAN PEDRO HS | LA-1244 | B-3 |

| SITE LOCATION | START | FINISH | SHEET NO. |
|---|---|---|---|
| San Pedro, CA | 6/20/2015 | 6/20/2015 | 2 of 2 |

| DRILLING COMPANY | DRILL RIG | DRILLING METHOD | LOGGED BY | CHECKED BY |
|---|---|---|---|---|
| Cascade | CME 75 LAR | Hollow Stem Auger | AW | TS |

| HAMMER TYPE (WEIGHT/DROP) | HAMMER EFFICIENCY (ERi) | BORING DIA. (in) | TOTAL DEPTH (ft) | GROUND ELEV (ft) | DEPTH/*ELEV.* GW (ft) |
|---|---|---|---|---|---|
| Hammer: 140 lbs., Drop: 30 in. | 76.7 | 8" | 30 | | ▽ N/E / *na* DURING DRILLING |

| DRIVE SAMPLER TYPE(S) & SIZE (ID) | NOTES | |
|---|---|---|
| MOD. CAL & SPT | | ▼ / *na* AFTER DRILLING |

| DEPTH (feet) | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | MOISTURE (%) | DRY DENSITY (PCF) | PASSING #200 (%) | ATTERBERG LIMITS (LL:PL:PI) | POCKET PEN (TSF) | OTHER TESTS | DRILLING METHOD | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | R-5 | 9<br>16<br>22 | 38 | 30.7 | 83.3 | | | >4.5 | | | | -Soft. |
| 30 | | | S-6 | 4<br>7<br>6 | 13 | 63.7 | | | | | | | | Total Depth: 30.0 Feet.<br>Groundwater: Not Encountered during excavation.<br>Boring backfilled with native fillings.<br>Topped with cold patch. |
| 35 | | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | | |

GDC_LOG_BORING_2011 LA1244.GPJ GDCLOG.GDT 7/14/15

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FIGURE
A-3 b

# PREVIOUS LABORATORY TESTING

# Amount of Material in Soil Finer Than No. 200 Sieve



**(ASTM D-1140-97)**

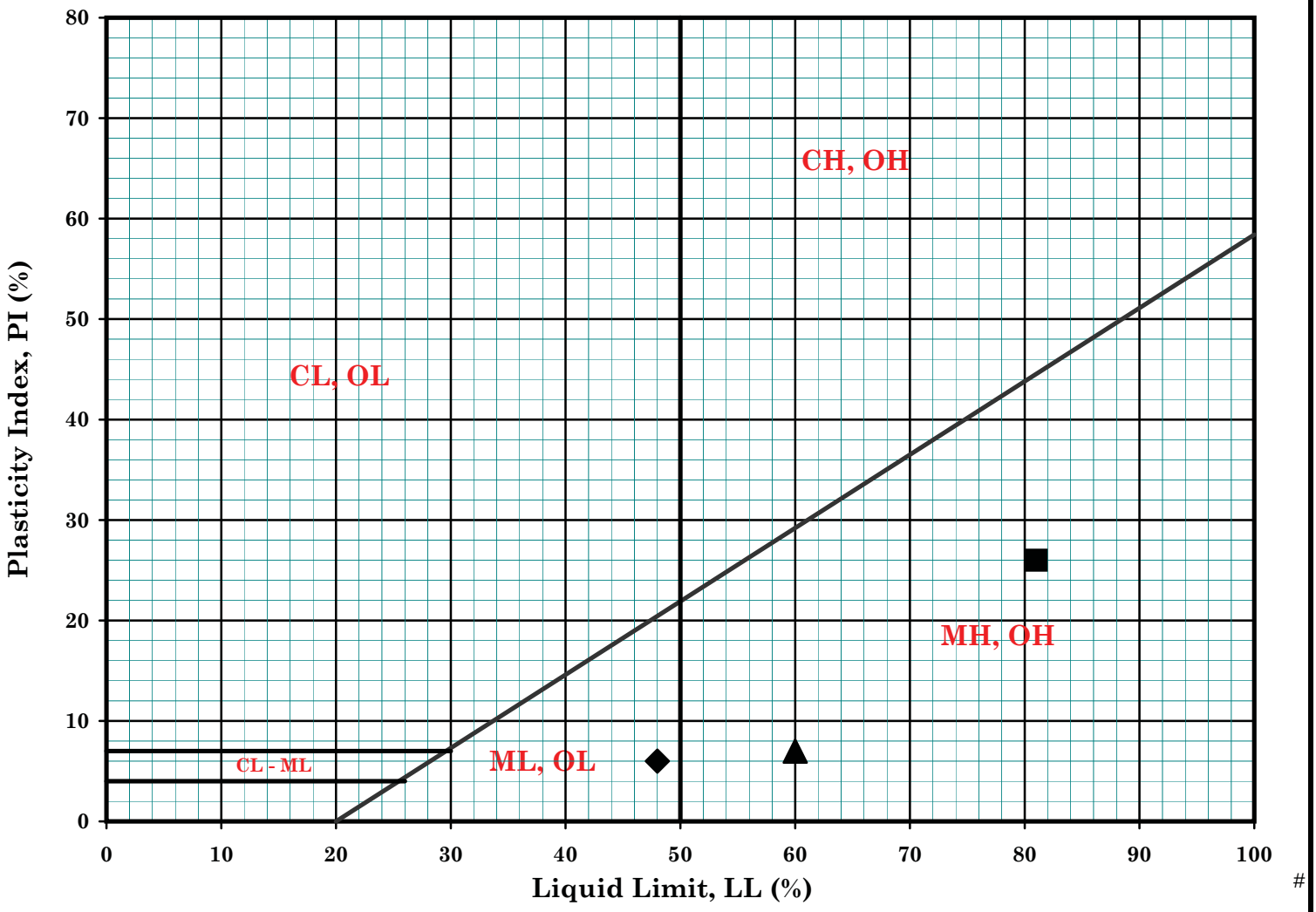
**Project No.** : LA1172 **Project Name** : San Pedro High School

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Boring No.** | : B-4 | | **Prepared By** : Eric Y. | | **Date** : 12/11/13 | **Percentage of** | | | **Maximum Size** |
| **Sample No.** | : B1 | | **Washed By** : Eric Y. | | **Date** : 12/11/13 | **Gravel** | **Sand** | **Fine** | |
| **Depth ( ft )** | : 0.0 | 1.5 | **Tested By** : Eric Y. | | **Date** : 12/12/13 | 2 | 64 | 34 | 1/2" |
| **Depth ( m )** | : 0.00 | 0.46 | **Checked By** : | | **Date** : | | | | |
| **Description** | : Very Dark Grayish Brown Silty Sand and Clay w/ Traces of Gravel ,and Crush Conc.,Asphalt | | | | | **Sample** | | **Passing No. 200** | **Retained No. 4** |
| X | **Method (A)** - Soaked by Water | | | | | | | | |
| | **Method (B)** - Soaked by Deflocculating Agent (Minium 2 Hours) | | | | | **Tested** | **Moisture** | **Sieve** | |
| **Container Number** | | | | | | S-13 | S-13 | S-13 | S-13 |
| **Wet Weight of Soil + Container (gm)** | | | | | | 859.40 | 859.40 | | |
| **Dry Weight of Soil + Container (gm)** | | | | | | | 787.62 | 566.11 | |
| **Weight of Container (gm)** | | | | | | 125.67 | 125.67 | 125.67 | |
| **Weight of Dry Soil (gm)** | | | | | | 661.95 | 661.95 | 440.44 | 13.45 |
| **Moisture Content (%)** | | | | | | | 10.84 | | |
| **(%) of Soil Passing No. 200 Sieve and Retained on No. 4 Sieve** | | | | | | | | 33.46 | 2.03 |
| **Remark :** | | | | | | | | | 1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Boring No.** | : B-6 | | **Prepared By** : Eric Y. | | **Date** : 12/11/13 | **Percentage of** | | | **Maximum Size** |
| **Sample No.** | : B1 | | **Washed By** : Eric Y. | | **Date** : 12/11/13 | **Gravel** | **Sand** | **Fine** | |
| **Depth ( ft )** | : 0.0 | 1.5 | **Tested By** : Eric Y. | | **Date** : 12/12/13 | 12 | 45 | 43 | 3/4" |
| **Depth ( m )** | : 0.00 | 0.46 | **Checked By** : | | **Date** : | | | | |
| **Description** | : Yellowish Brown to Black Silty Sand and Clay w/ Gravel, Crush Asphalt and Siltstone | | | | | **Sample** | | **Passing No. 200** | **Retained No. 4** |
| X | **Method (A)** - Soaked by Water | | | | | | | | |
| | **Method (B)** - Soaked by Deflocculating Agent (Minium 2 Hours) | | | | | **Tested** | **Moisture** | **Sieve** | |
| **Container Number** | | | | | | S-15 | S-15 | S-15 | S-15 |
| **Wet Weight of Soil + Container (gm)** | | | | | | 950.65 | 950.65 | | |
| **Dry Weight of Soil + Container (gm)** | | | | | | | 843.96 | 534.61 | |
| **Weight of Container (gm)** | | | | | | 126.92 | 126.92 | 126.92 | |
| **Weight of Dry Soil (gm)** | | | | | | 717.04 | 717.04 | 407.69 | 87.46 |
| **Moisture Content (%)** | | | | | | | 14.88 | | |
| **(%) of Soil Passing No. 200 Sieve and Retained on No. 4 Sieve** | | | | | | | | 43.14 | 12.20 |
| **Remark :** | | | | | | | | | 2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Boring No.** | : | | **Prepared By** : | | **Date** : | **Percentage of** | | | **Maximum Size** |
| **Sample No.** | : | | **Washed By** : | | **Date** : | **Gravel** | **Sand** | **Fine** | |
| **Depth ( ft )** | : | | **Tested By** : | | **Date** : | | | | |
| **Depth ( m )** | : | | **Checked By** : | | **Date** : | | | | |
| **Description** | : | | | | | **Sample** | | **Passing No. 200** | **Retained No. 4** |
| | **Method (A)** - Soaked by Water | | | | | | | | |
| | **Method (B)** - Soaked by Deflocculating Agent (Minium 2 Hours) | | | | | **Tested** | **Moisture** | **Sieve** | |
| **Container Number** | | | | | | | | | |
| **Wet Weight of Soil + Container (gm)** | | | | | | | | | |
| **Dry Weight of Soil + Container (gm)** | | | | | | | | | |
| **Weight of Container (gm)** | | | | | | | | | |
| **Weight of Dry Soil (gm)** | | | | | | | | | |
| **Moisture Content (%)** | | | | | | | | | |
| **(%) of Soil Passing No. 200 Sieve and Retained on No. 4 Sieve** | | | | | | | | | |
| **Remark :** | | | | | | | | | 3 |

# PLASTICITY CHART




#

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| A Line | 20 | 0 | CL-ML | 0 | 4 | 0 | 7 | 0-50 | 50 | 80 |
| | 100 | 58.4 | Box | 26 | 4 | 30 | 7 | Vert | 50 | 0 |

| Symbol | Boring No. | Sample No. | Depth (ft) | | Depth (m) | | MC (%) | LL (%) | PL (%) | PI (%) | LI | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ● | B-1 | R-25 | 25.0 | 26.0 | 7.6 | 7.9 | 78.60 | 114 | 80 | 34 | -0.04 | Diatomaceous Shale |
| ▲ | B-2 | R-5 | 5.0 | 6.0 | 1.5 | 1.8 | 64.50 | 60 | 53 | 7 | 1.64 | Diatomaceous Shale |
| ◆ | B-3 | R-10 | 10.0 | 11.0 | 3.1 | 3.4 | 28.10 | 48 | 42 | 6 | -2.32 | Diatomaceous Shale |
| ■ | B-4 | R-10 | 10.0 | 11.0 | 3.1 | 3.4 | 71.05 | 81 | 55 | 26 | 0.62 | Diatomaceous Shale |
| ○ | B-4 | R-25 | 25.0 | 26.5 | 7.6 | 8.1 | 66.12 | 105 | 74 | 31 | -0.25 | Diatomaceous Shale |
| △ | B-5 | S-20 | 20.0 | 21.0 | 6.1 | 6.4 | 89.30 | 91 | | | | Diatomaceous Shale |
| ◇ | | | | | | | | | | | | |
| □ | | | | | | | | | | | | |

Remark :

GROUP DELTA CONSULTANTS

*Dana Middle School Slope*

Project No. : *L-958*

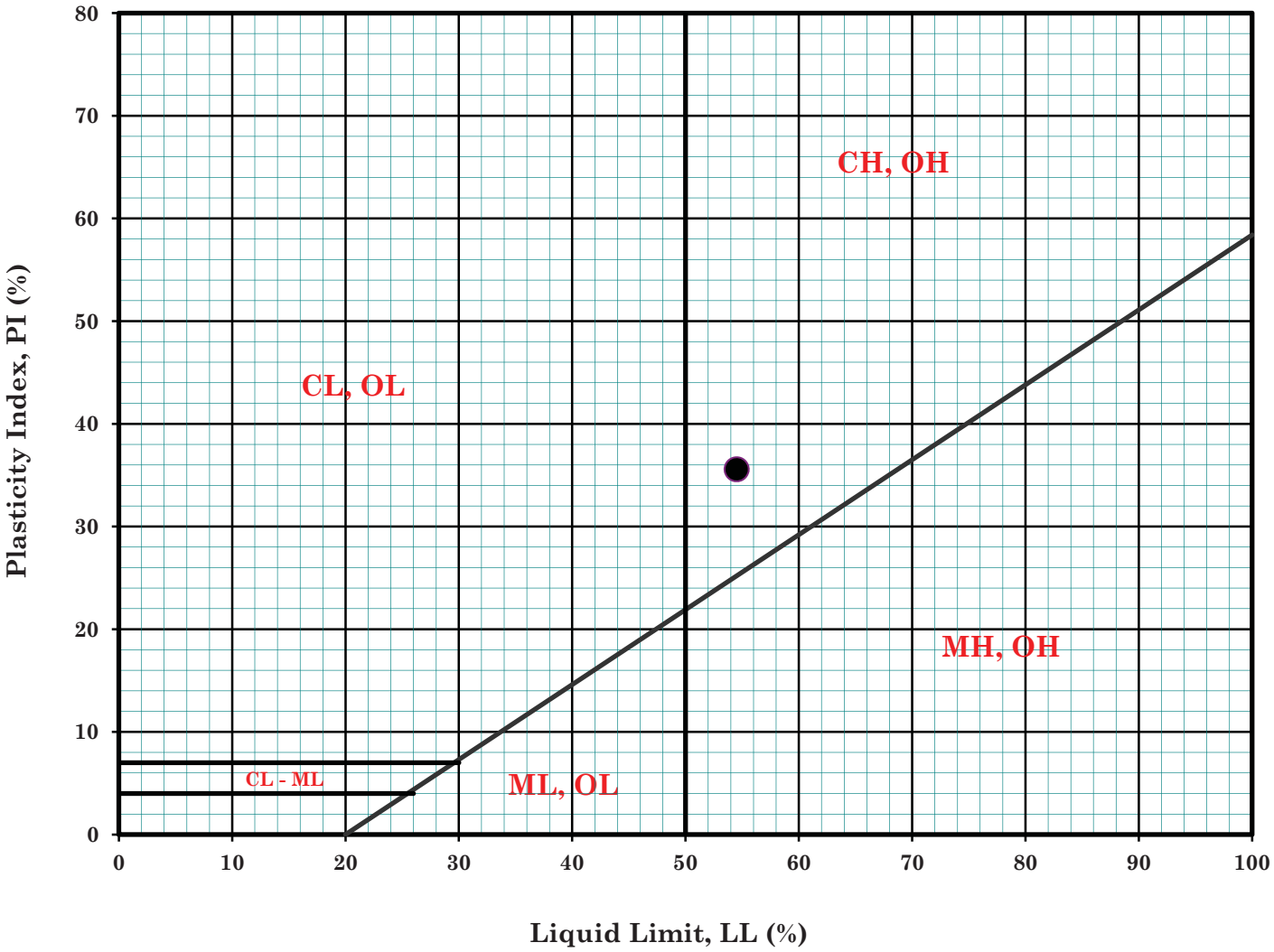
Date : *05/17/11*

## ATTERBERG LIMITS

(ASTM D-4318-84)

Figure No. : B-13

# PLASTICITY CHART




| Symbol | Boring No. | Sample No. | Depth (ft) | | Depth (m) | | MC (%) | LL (%) | PL (%) | PI (%) | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ● | B-6 | B1 | 0.0 | 5.0 | 0.0 | 1.5 | 14.9 | 55 | 19 | 36 | Dark Gray Fat Clay - CH |
| ▲ | | | | | | | | | | | |
| ◆ | | | | | | | | | | | |
| ■ | | | | | | | | | | | |
| ○ | | | | | | | | | | | |
| △ | | | | | | | | | | | |
| ◇ | | | | | | | | | | | |
| □ | | | | | | | | | | | |

Remark :

GROUP DELTA CONSULTANTS

*San Pedro High School Pavement Design and Infiltration Assessment*

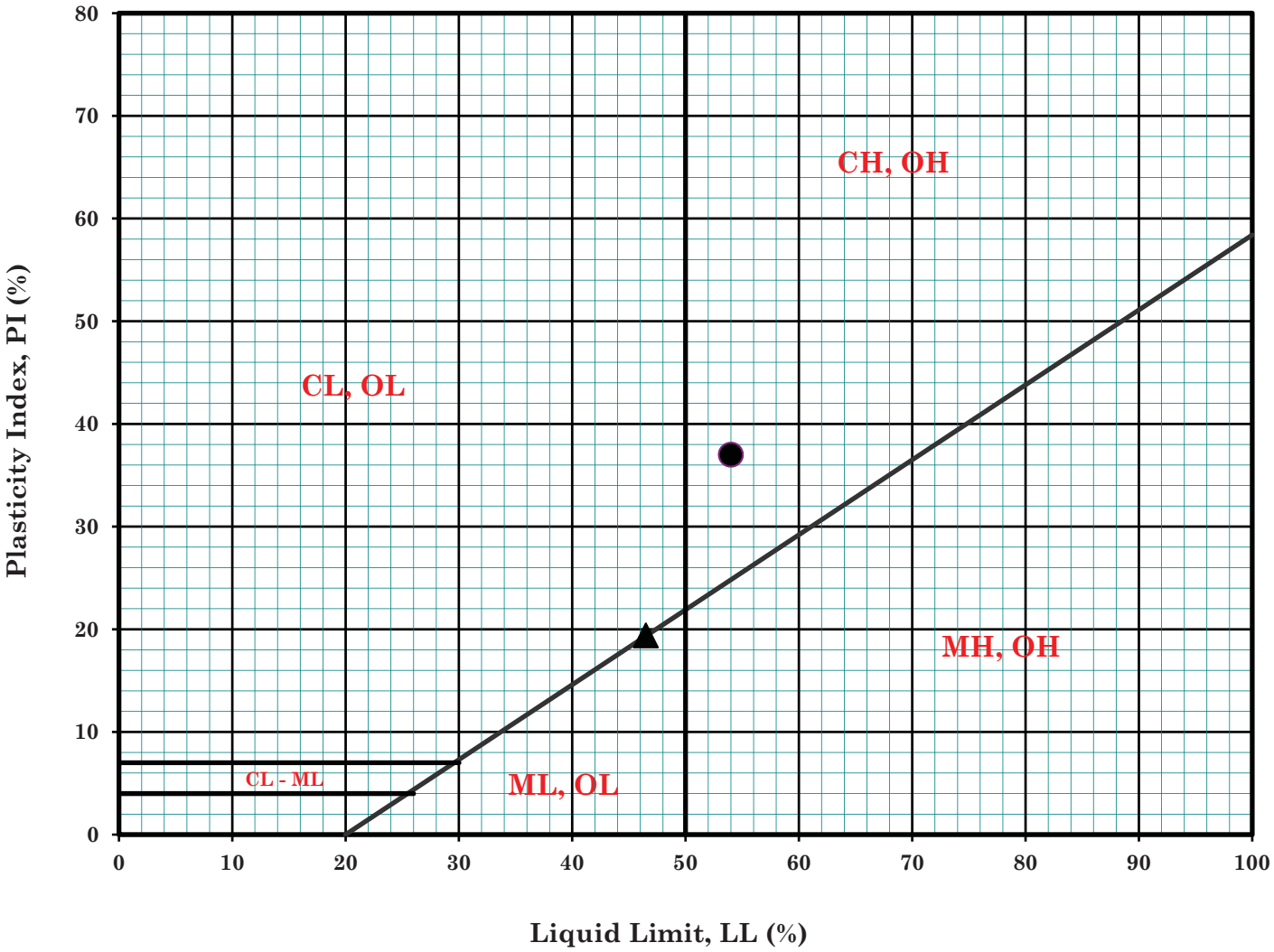
Project No. : *LA1172*

Date : *12/9/13*

**ATTERBERG LIMITS**
**(ASTM D-4318-84)**

Figure No. : B-1

# PLASTICITY CHART




| Symbol | Boring No. | Sample No. | Depth (ft) | | Depth (m) | | MC (%) | LL (%) | PL (%) | PI (%) | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ● | B-1 | R2 | 5.0 | 11.5 | 1.5 | 3.5 | | 54 | 17 | 37 | Black Clay with Traces of Gravel |
| ▲ | B-2 | R3 | 10.0 | 16.5 | 3.1 | 5.0 | | 47 | 28 | 19 | Light Olive Brown Clay to Siltstone (CL) |
| ◆ | | | | | | | | | | | |
| ■ | | | | | | | | | | | |
| ○ | | | | | | | | | | | |
| △ | | | | | | | | | | | |
| ◇ | | | | | | | | | | | |
| □ | | | | | | | | | | | |

Remark :

GROUP DELTA CONSULTANTS

## San Pedro High School

Project No. : LA1204

Date : 7/21/14

**ATTERBERG LIMITS**
(ASTM D-4318-84)

Figure No. : B-1

# ATTERBERG LIMITS

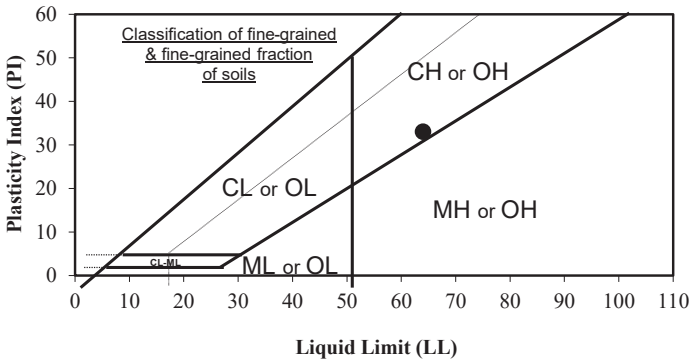
**ASTM D-4318 / AASTHO T-89 / CTM 204**

| | | | | | |
|---|---|---|---|---|---|
| Project Name: | San Pedro High School | Tested By : | Eric Y. | Date: | 07/08/15 |
| Project No. : | LA1244 | Data Input By: | Eric Y. | Date: | 07/09/15 |
| Boring No.: | B-2 | Checked By: | Dave R. | Date: | |
| Sample No. : | B-1 | Depth (ft.) : | 0 - 5' | | |
| Initial Moisture | | Container No.: AL-5 | | | |
| Description.: | Oilve Brown Clay with Crushed Siltstone/Claystone, and Traces of Gravel and Asphalt - CH | | | | |

| | PLASTIC LIMIT | | LIQUID LIMIT | | | |
|---|---|---|---|---|---|---|
| TEST NO. | 1 | 2 | 1 | 2 | 3 | 4 |
| Number of Blows [N] | | | 34 | 27 | 16 | |
| Container No. | 1 | 2 | 3 | 4 | 5 | |
| Wet Wt. of Soil + Cont. (gm.) | 34.56 | 34.65 | 44.38 | 45.51 | 46.96 | |
| Dry Wt. of Soil + Cont. (gm.) | 32.41 | 32.43 | 37.25 | 37.86 | 38.90 | |
| Wt. of Container (gm.) | 25.51 | 25.29 | 25.78 | 25.86 | 26.65 | |
| Moisture Content (%) [Wn] | 31.16 | 31.09 | 62.16 | 63.75 | 65.80 | |

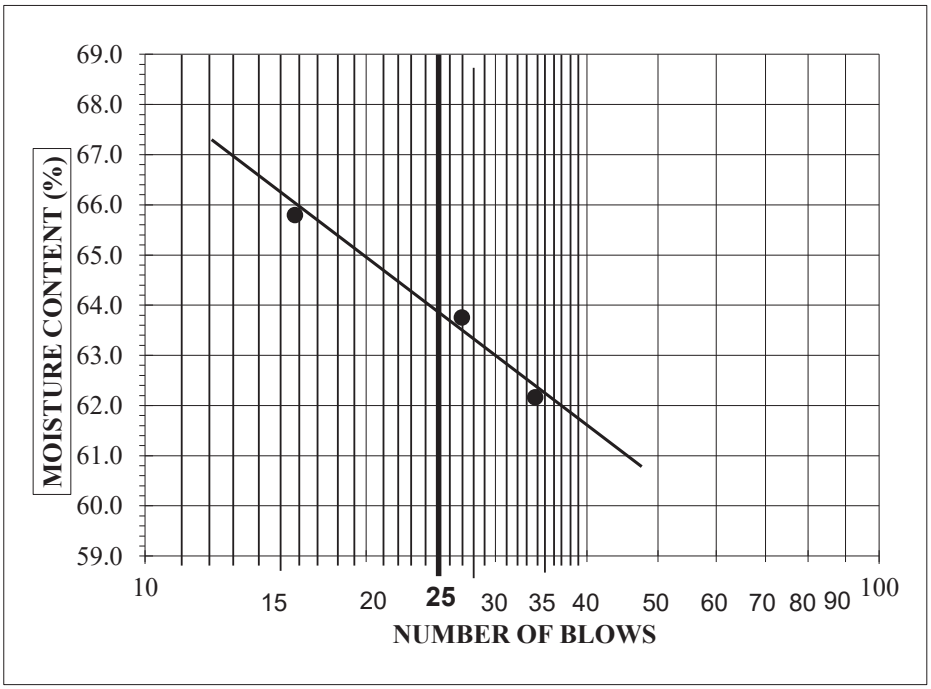
| | |
|---|---|
| **LIQUID LIMIT** | 64 |
| **PLASTIC LIMIT** | 31 |
| **PLASTICITY INDEX** | 33 |
| PI at "A" - Line = 0.73(LL-20) = | 32.1 |

One - Point Liquid Limit Calculation $LL=Wn(N/25)^{0.121}$




**PROCEDURES USED**

- ☐ Wet Preparation
  Multipoint Wet Preparation
- ☒ Dry Preparation
  Multipoint Dry Preparation
- ☒ Procedure A
  Multipoint Test
- ☐ Procedure B
  One-point Test




GROUP DELTA CONSULTANTS

Group Delta Consultants

# ATTERBERG LIMITS

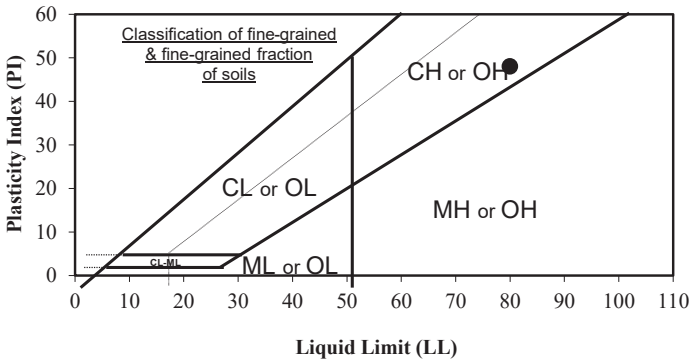
**ASTM D-4318 / AASTHO T-89 / CTM 204**

| | | | | | |
|---|---|---|---|---|---|
| Project Name: | San Pedro High School | Tested By : | Eric Y. | Date: | 07/08/15 |
| Project No. : | LA1244 | Data Input By: | Eric Y. | Date: | 07/09/15 |
| Boring No.: | B-3 | Checked By: | Dave R. | Date: | |
| Sample No. : | S-3 | Depth (ft.) : | 10 | | |
| Initial Moisture | | Container No.: AL-6 | | | |
| Description.: | Oilve Brown Silt or Clay with Siltstone/Claystone - CH or OH | | | | |

| | PLASTIC LIMIT | | LIQUID LIMIT | | | |
|---|---|---|---|---|---|---|
| TEST NO. | 1 | 2 | 1 | 2 | 3 | 4 |
| Number of Blows [N] | | | 31 | 25 | 18 | |
| Container No. | 16 | 17 | 18 | 19 | 20 | |
| Wet Wt. of Soil + Cont. (gm.) | 34.40 | 33.41 | 44.43 | 45.18 | 42.86 | |
| Dry Wt. of Soil + Cont. (gm.) | 32.13 | 31.28 | 36.64 | 36.94 | 34.64 | |
| Wt. of Container (gm.) | 25.03 | 24.60 | 26.71 | 26.60 | 24.53 | |
| Moisture Content (%) [Wn] | 31.97 | 31.89 | 78.45 | 79.69 | 81.31 | |

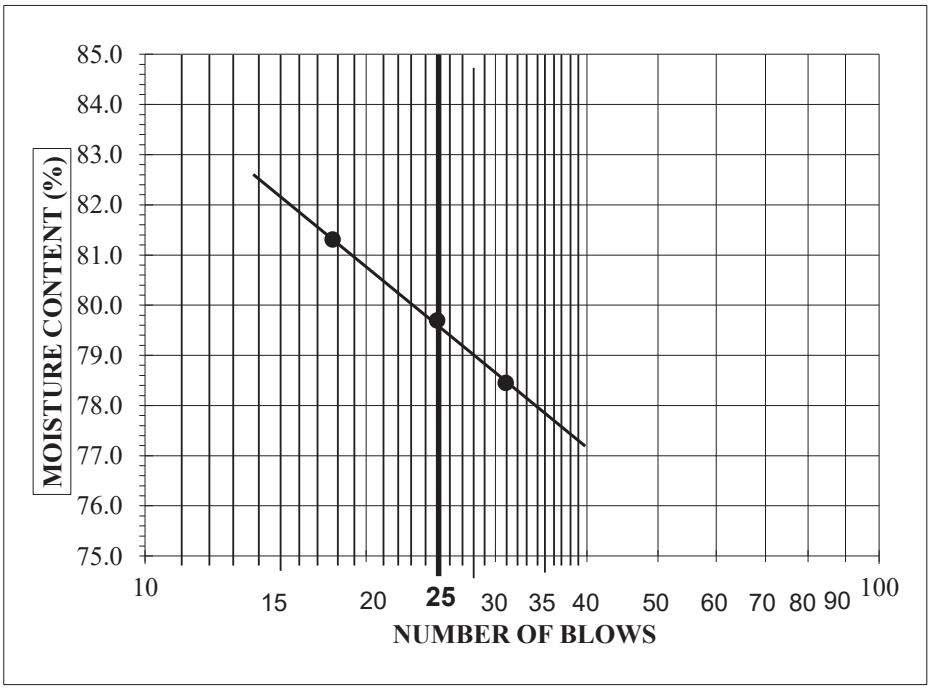
| | |
|---|---|
| **LIQUID LIMIT** | 80 |
| **PLASTIC LIMIT** | 32 |
| **PLASTICITY INDEX** | 48 |
| PI at "A" - Line = 0.73(LL-20) = | 43.8 |

One - Point Liquid Limit Calculation $LL=Wn(N/25)^{0.121}$




**PROCEDURES USED**

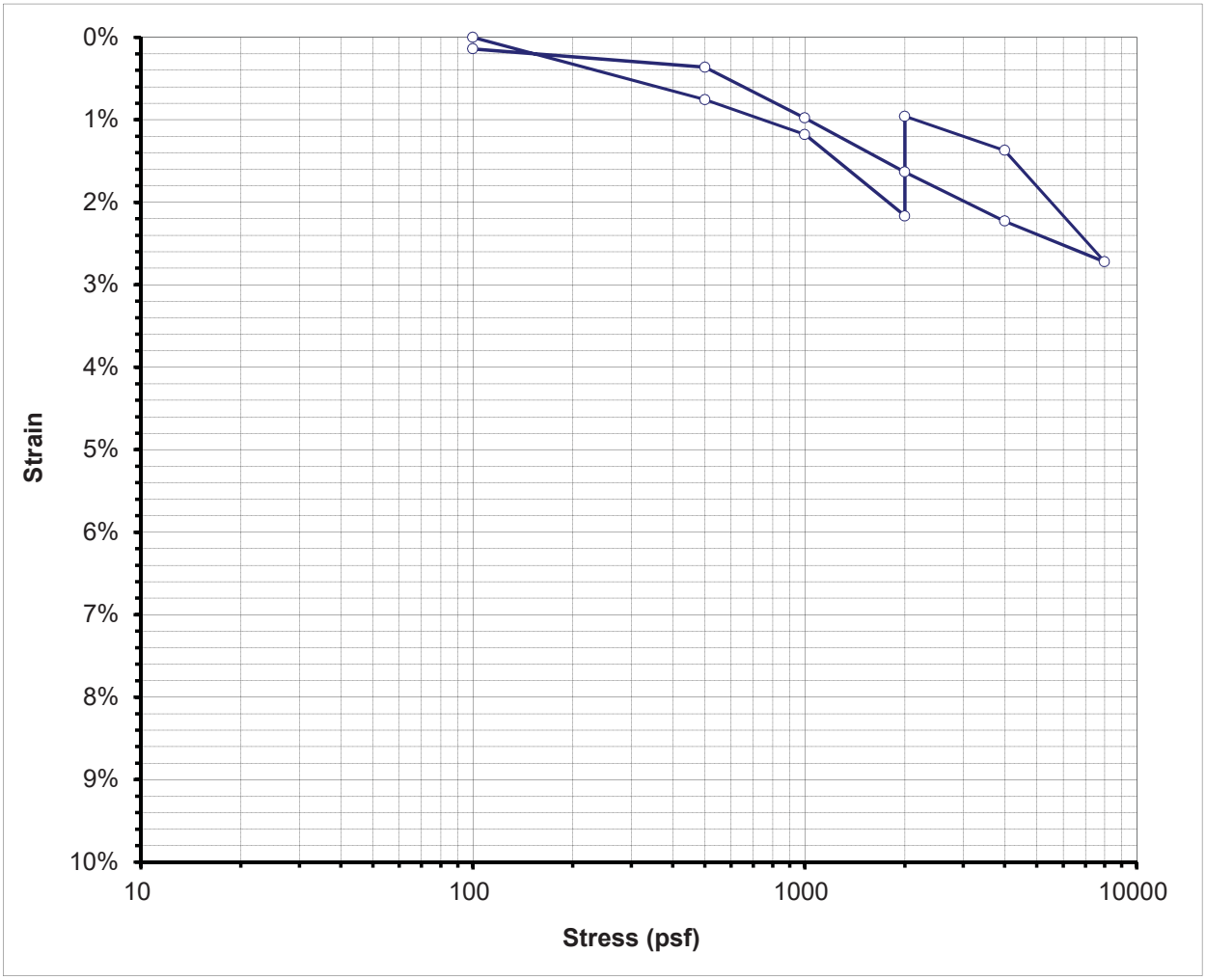
- ☐ Wet Preparation
  - Multipoint Wet Preparation
- ☒ Dry Preparation
  - Multipoint Dry Preparation
- ☒ Procedure A
  - Multipoint Test
- ☐ Procedure B
  - One-point Test




GROUP DELTA CONSULTANTS

Group Delta Consultants

# CONSOLIDATION TEST RESULTS
# ASTM-D-2435




| | | | |
|---|---|---|---|
| **Boring No.** | B-1 | **Sample Depth** | 5 |
| **Sample No.** | R2 | **USCS** | CH |

**BEFORE TEST**

| | | |
|---|---|---|
| **Initial Moisture Content:** | 20.0% | |
| **Initial Dry Unit Wt:** | 107.5 | pcf |
| **Initial Total Unit Wt.:** | 129.1 | pcf |
| **Initial Void Ratio:** | 0.5380 | |
| **Initial Degree of Saturation:** | 98.8% | |

**AFTER TEST**

| | | |
|---|---|---|
| **Final Moisture Content:** | 21.6% | |
| **Final Dry Unit Wt:** | 107.9 | pcf |
| **Final Total Unit Wt.:** | 131.2 | pcf |
| **Final Void Ratio:** | 0.5326 | |
| **Final Degree of Saturation:** | 107.3% | |

**Water Added at:** 2000 psf

| ATTERBERG LIMITS | | | | | |
|---|---|---|---|---|---|
| **LL=** | 54 | **PL=** | 17 | **PI=** | 37 |

| PRESSURE (psf) | SAMPLE STRAIN | VOID RATIO |
|---|---|---|
| 100 | 0.00% | 0.5380 |
| 500 | 0.76% | 0.5264 |
| 1000 | 1.18% | 0.5199 |
| 2000 | 2.17% | 0.5047 |
| 2000 | 0.96% | 0.5233 |
| 4000 | 1.37% | 0.5169 |
| 8000 | 2.72% | 0.4962 |
| 4000 | 2.23% | 0.5038 |
| 2000 | 1.63% | 0.5129 |
| 1000 | 0.98% | 0.5230 |
| 100 | 0.14% | 0.5359 |
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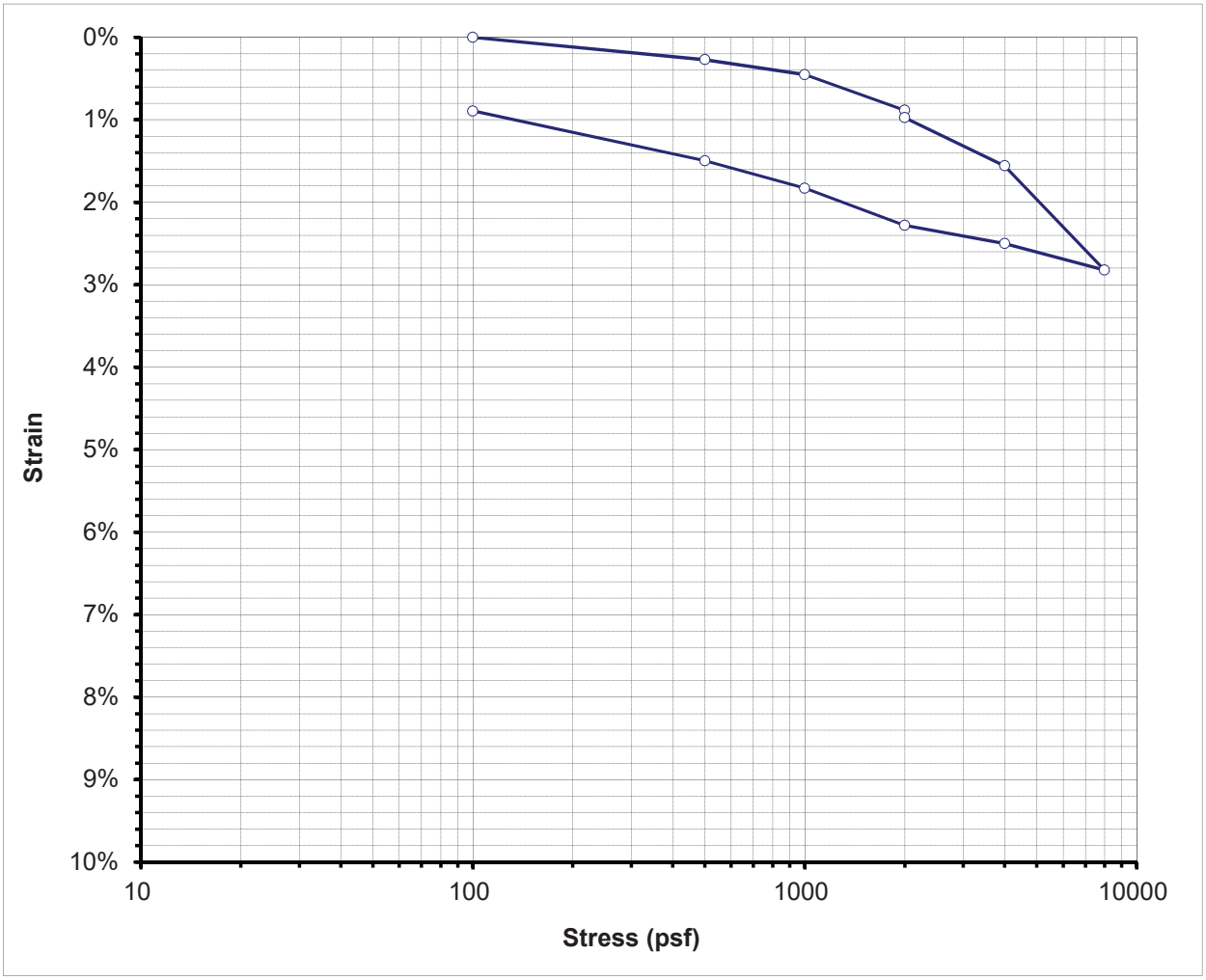
**PROJECT NUMBER:** LA1204

**PROJECT NAME:** San Pedro High School

**FIGURE NO.**
**B-2**

GROUP DELTA CONSULTANTS

# CONSOLIDATION TEST RESULTS
# ASTM-D-2435




| | | | |
|---|---|---|---|
| **Boring No.** | B-2 | **Sample Depth** | 10 |
| **Sample No.** | R3 | **USCS** | CL |

**BEFORE TEST**

| | | |
|---|---|---|
| **Initial Moisture Content:** | 17.0% | |
| **Initial Dry Unit Wt:** | 79.8 | pcf |
| **Initial Total Unit Wt.:** | 93.4 | pcf |
| **Initial Void Ratio:** | 1.0712 | |
| **Initial Degree of Saturation:** | 42.1% | |

**AFTER TEST**

| | | |
|---|---|---|
| **Final Moisture Content:** | 38.8% | |
| **Final Dry Unit Wt:** | 80.9 | pcf |
| **Final Total Unit Wt.:** | 112.3 | pcf |
| **Final Void Ratio:** | 1.0445 | |
| **Final Degree of Saturation:** | 98.4% | |

**Water Added at:** 800 psf

| ATTERBERG LIMITS | | | | | |
|---|---|---|---|---|---|
| **LL=** | 47 | **PL=** | 28 | **PI=** | 19 |

| PRESSURE (psf) | SAMPLE STRAIN | VOID RATIO |
|---|---|---|
| 100 | 0.00% | 1.0712 |
| 500 | 0.27% | 1.0655 |
| 1000 | 0.45% | 1.0618 |
| 2000 | 0.88% | 1.0528 |
| 2000 | 0.97% | 1.0510 |
| 4000 | 1.56% | 1.0389 |
| 8000 | 2.82% | 1.0127 |
| 4000 | 2.50% | 1.0193 |
| 2000 | 2.28% | 1.0239 |
| 1000 | 1.83% | 1.0333 |
| 100 | 0.89% | 1.0526 |
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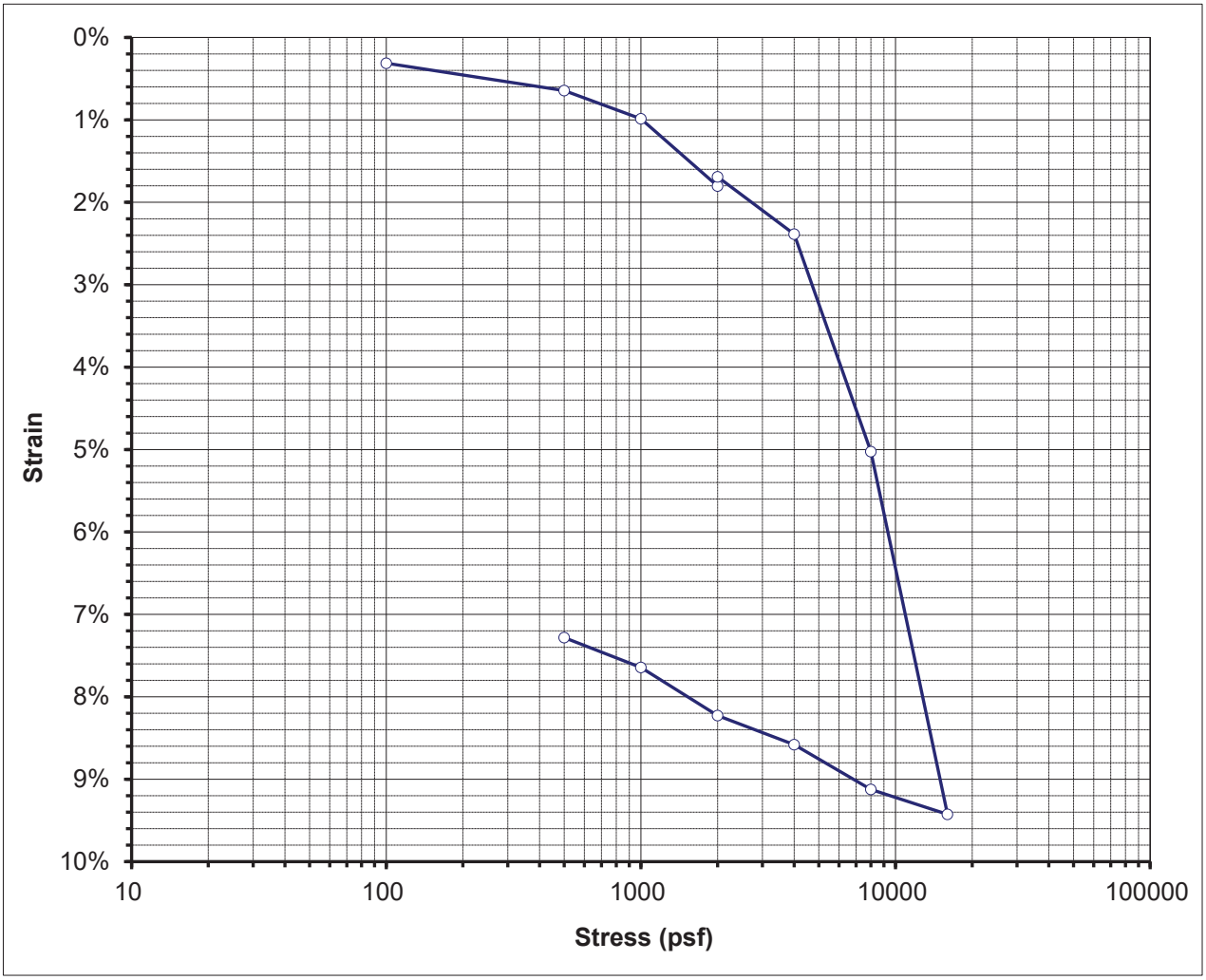
**PROJECT NUMBER:** LA1204

**PROJECT NAME:** San Pedro High School

**FIGURE NO.**
**B-3**

GROUP DELTA CONSULTANTS

# CONSOLIDATION TEST RESULTS
## ASTM D-2435




| | | | |
|---|---|---|---|
| Boring No. | B-1 | Sample Depth | 5 |
| Sample No. | R2 | USCS | |

**BEFORE TEST**

| | | |
|---|---|---|
| Initial Moisture Content: | 55.5% | |
| Initial Dry Unit Wt: | 64.1 | pcf |
| Initial Total Unit Wt.: | 99.7 | pcf |
| Initial Void Ratio: | 1.6276 | |
| Initial Degree of Saturation: | 92.1% | |

**AFTER TEST**

| | | |
|---|---|---|
| Final Moisture Content: | 55.9% | |
| Final Dry Unit Wt: | 68.5 | pcf |
| Final Total Unit Wt.: | 106.7 | pcf |
| Final Void Ratio: | 1.4603 | |
| Final Degree of Saturation: | 103.3% | |

| | | |
|---|---|---|
| Water Added at: | 2000 | psf |

| ATTERBERG LIMITS | | | | | |
|---|---|---|---|---|---|
| LL= | | PL= | | PI= | |

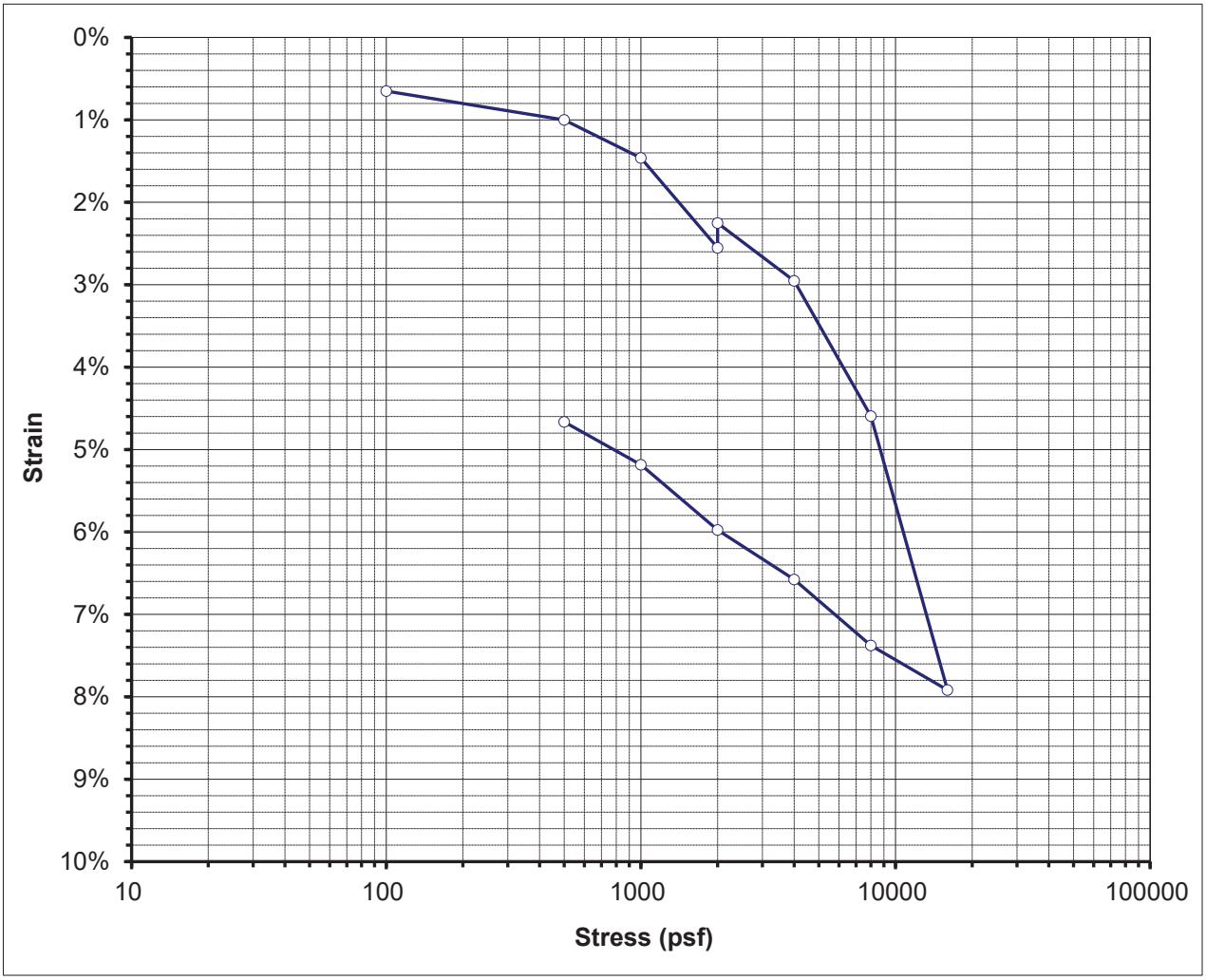
| PRESSURE (psf) | SAMPLE STRAIN | VOID RATIO |
|---|---|---|
| 100 | 0.31% | 1.6194 |
| 500 | 0.64% | 1.6106 |
| 1000 | 0.99% | 1.6016 |
| 2000 | 1.80% | 1.5802 |
| 2000 | 1.69% | 1.5831 |
| 4000 | 2.39% | 1.5649 |
| 8000 | 5.03% | 1.4955 |
| 16000 | 9.43% | 1.3799 |
| 8000 | 9.12% | 1.3878 |
| 4000 | 8.58% | 1.4021 |
| 2000 | 8.23% | 1.4114 |
| 1000 | 7.64% | 1.4267 |
| 500 | 7.28% | 1.4363 |
| 0 | 6.36% | 1.4603 |
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Assumed Specific Gravity of Solids, Gs: 2.70

| PROJECTNUMBER: | LA1244 | PROJECTNAME: | San Pedro High School | FIGURE NO. | B-1 R2 |
|---|---|---|---|---|---|

GROUP DELTA

# CONSOLIDATION TEST RESULTS
## ASTM D-2435




| | | | |
|---|---|---|---|
| Boring No. | B-2 | Sample Depth | 10 |
| Sample No. | R3 | USCS | |

**BEFORE TEST**

| | | |
|---|---|---|
| Initial Moisture Content: | 71.9% | |
| Initial Dry Unit Wt: | 45.1 | pcf |
| Initial Total Unit Wt.: | 77.5 | pcf |
| Initial Void Ratio: | 2.7358 | |
| Initial Degree of Saturation: | 71.0% | |

**AFTER TEST**

| | | |
|---|---|---|
| Final Moisture Content: | 97.4% | |
| Final Dry Unit Wt: | 46.1 | pcf |
| Final Total Unit Wt.: | 91.0 | pcf |
| Final Void Ratio: | 2.6539 | |
| Final Degree of Saturation: | 99.0% | |

Water Added at: 2000 psf

| ATTERBERG LIMITS | | | | | |
|---|---|---|---|---|---|
| LL= | | PL= | | PI= | |

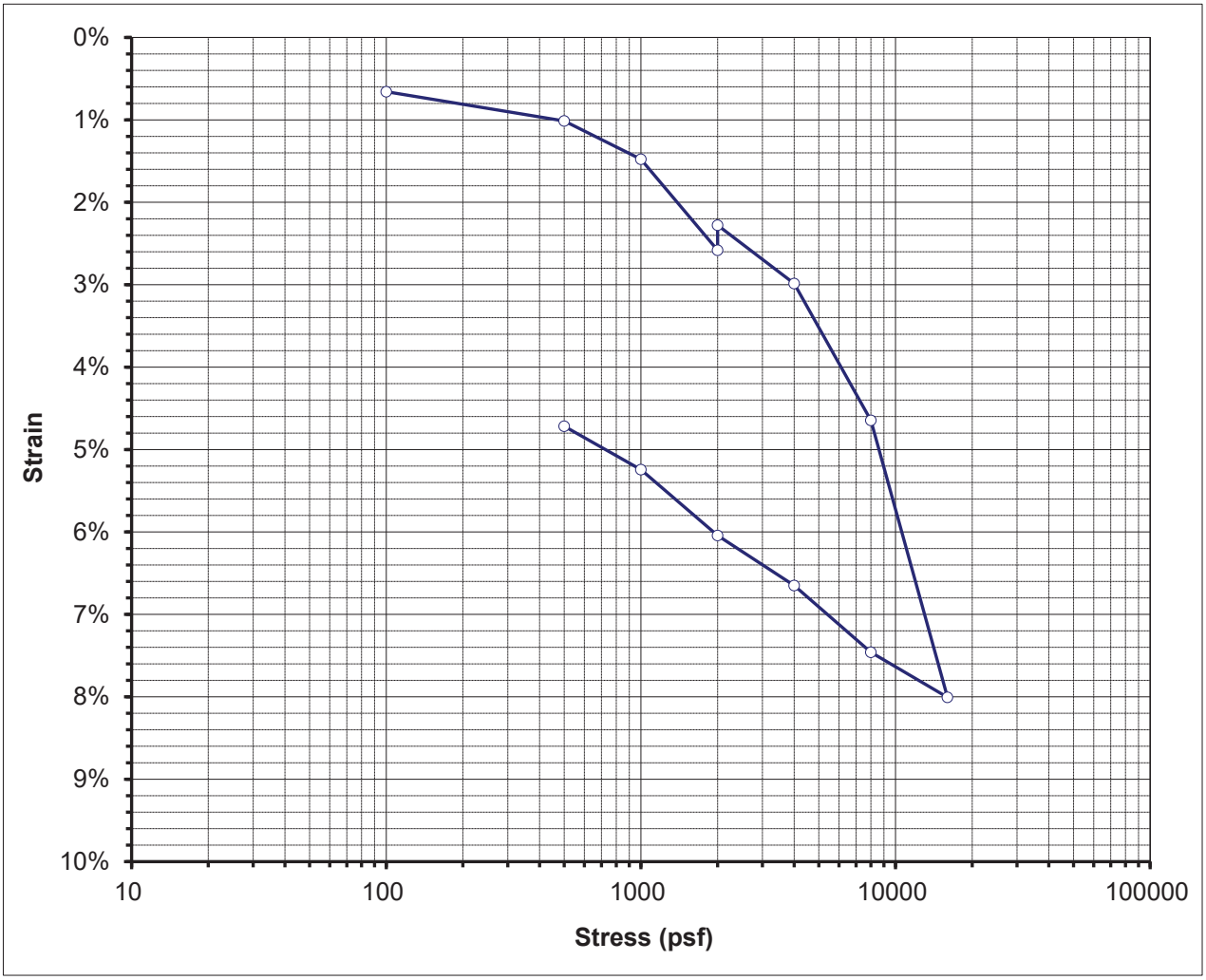
Assumed Specific Gravity of Solids, Gs: 2.70

| PRESSURE (psf) | SAMPLE STRAIN | VOID RATIO |
|---|---|---|
| 100 | 0.65% | 2.7115 |
| 500 | 1.00% | 2.6984 |
| 1000 | 1.46% | 2.6812 |
| 2000 | 2.55% | 2.6404 |
| 2000 | 2.25% | 2.6517 |
| 4000 | 2.95% | 2.6255 |
| 8000 | 4.59% | 2.5642 |
| 16000 | 7.92% | 2.4400 |
| 8000 | 7.38% | 2.4602 |
| 4000 | 6.58% | 2.4901 |
| 2000 | 5.98% | 2.5126 |
| 1000 | 5.19% | 2.5421 |
| 500 | 4.66% | 2.5615 |
| 0 | 3.57% | 2.6023 |
| | | |
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| | | | | |
|---|---|---|---|---|
| PROJECTNUMBER: | LA1244 | PROJECTNAME: | San Pedro High School | FIGURE NO. B-2 R3 |

GROUP DELTA

# CONSOLIDATION TEST RESULTS
## ASTM D-2435




| | | | |
|---|---|---|---|
| Boring No. | B-1 | Sample Depth | 10 |
| Sample No. | R4 | USCS | |

**BEFORE TEST**

| | | |
|---|---|---|
| Initial Moisture Content: | 92.5% | |
| Initial Dry Unit Wt: | 45.9 | pcf |
| Initial Total Unit Wt.: | 88.4 | pcf |
| Initial Void Ratio: | 2.6697 | |
| Initial Degree of Saturation: | 93.5% | |

**AFTER TEST**

| | | |
|---|---|---|
| Final Moisture Content: | 96.7% | |
| Final Dry Unit Wt: | 47.6 | pcf |
| Final Total Unit Wt.: | 93.7 | pcf |
| Final Void Ratio: | 2.5371 | |
| Final Degree of Saturation: | 102.9% | |

Water Added at: 2000 psf

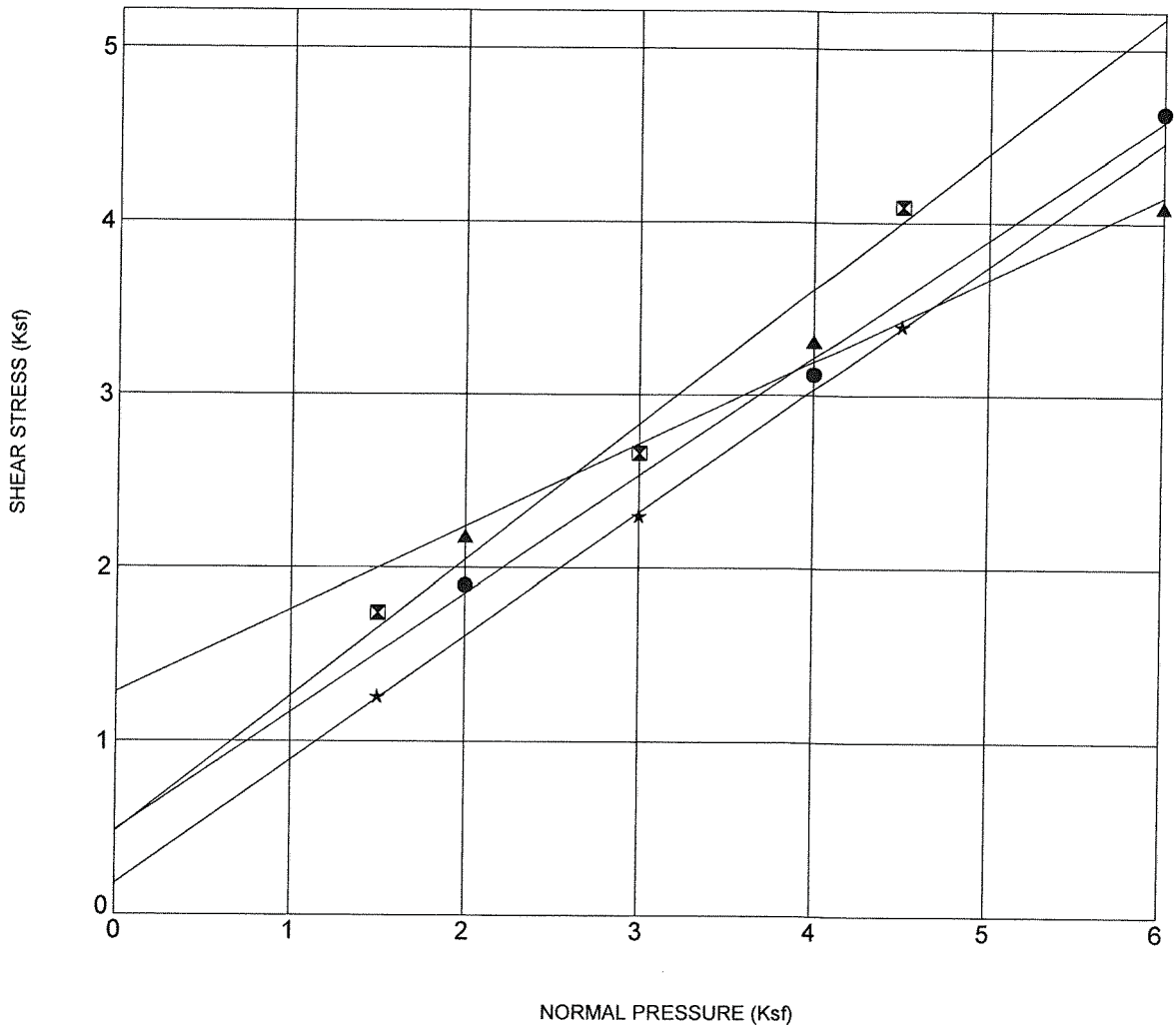
| ATTERBERG LIMITS | | | | | |
|---|---|---|---|---|---|
| LL= | | PL= | | PI= | |

Assumed Specific Gravity of Solids, Gs: 2.70

| PRESSURE (psf) | SAMPLE STRAIN | VOID RATIO |
|---|---|---|
| 100 | 0.66% | 2.6456 |
| 500 | 1.01% | 2.6326 |
| 1000 | 1.48% | 2.6155 |
| 2000 | 2.58% | 2.5750 |
| 2000 | 2.28% | 2.5861 |
| 4000 | 2.99% | 2.5601 |
| 8000 | 4.65% | 2.4992 |
| 16000 | 8.01% | 2.3759 |
| 8000 | 7.46% | 2.3960 |
| 4000 | 6.65% | 2.4257 |
| 2000 | 6.04% | 2.4480 |
| 1000 | 5.24% | 2.4773 |
| 500 | 4.72% | 2.4966 |
| 0 | 3.61% | 2.5371 |
| | | |
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| | | |
| | | |

| PROJECTNUMBER: | LA1244 | PROJECTNAME: | San Pedro High School | FIGURE NO. | B-1 R4 |
|---|---|---|---|---|---|

GROUP DELTA




| SYM | BORING | Depth(ft) | DESCRIPTION | $\gamma_d$ lb/ft^3 | MC % Before | MC % After | c KSF | $\phi$ deg |
|---|---|---|---|---|---|---|---|---|
| ● | B-1 | 4.0 | (CL) Black/Brown, Clay | 62.9 | 79.2 | 79.2 | 0.49 | 34.3 |
| ⊠ | B-2 | 2.0 | (CL) Black/Dark Brown, Clay | 112.4 | 9.6 | 9.6 | 0.48 | 38.1 |
| ▲ | B-3 | 4.0 | (CL) Black/Dark Brown, Clay | 57.8 | 71.5 | 71.5 | 1.28 | 25.5 |
| ★ | B-4 | 2.0 | (CL) Black/Dark Brown, Clay | 98.1 | 26.1 | 26.1 | 0.18 | 35.5 |

NOTE:
1) All samples submerged unless otherwise noted
2) Shear Strengths are Peak with less than 0.25 inch deflection

GDC DIRECT SHEAR PEAK L-646 SAN PEDRO.GPJ GDC_WLOG.GDT 10/7/05

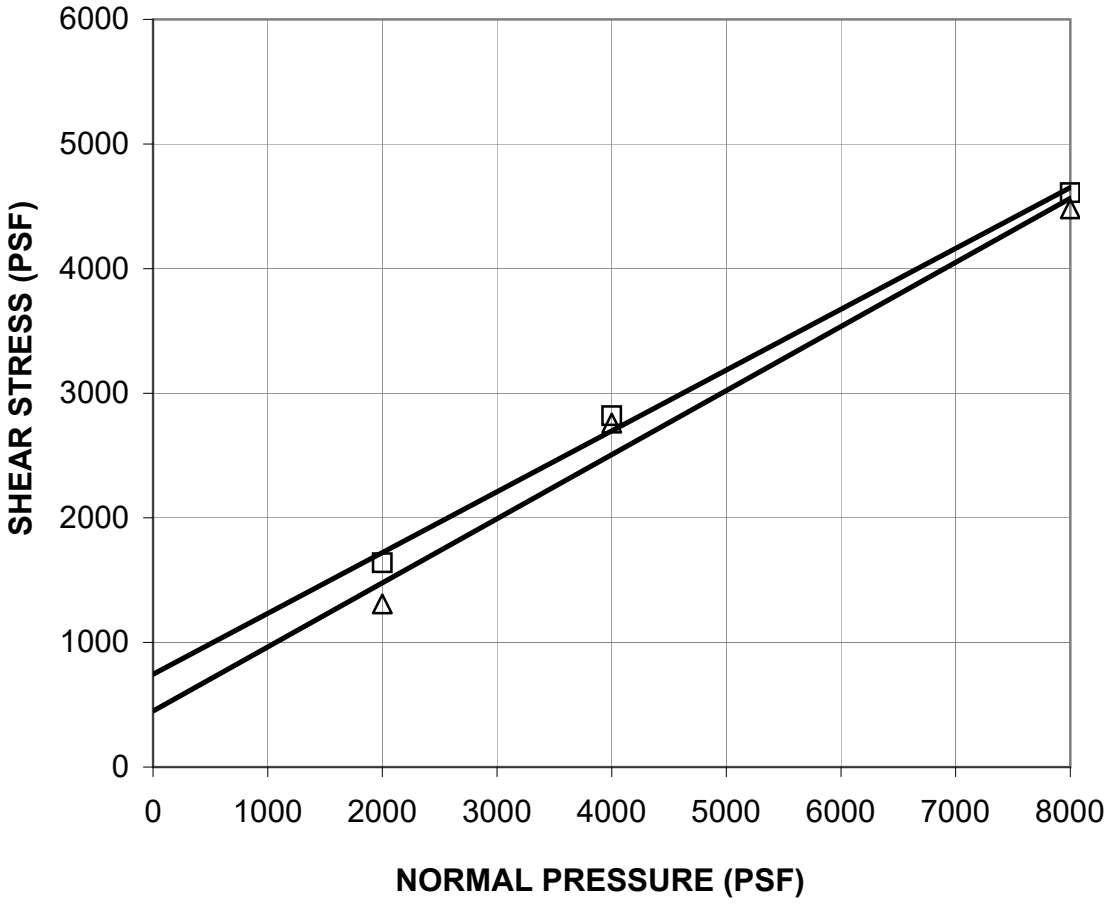
GROUP DELTA CONSULTANTS

# DIRECT SHEAR

**GROUP DELTA CONSULTANTS, INC.**

Project: L-646 LAUSD San Perdo High School
Location: San Perdo, CA
Number: L-646

FIGURE B-1




| Symbol | | Borehole Number | Sample Number | Depth (ft) | Soil Type | Cohesion (psf) | Friction Angle (°) |
|---|---|---|---|---|---|---|---|
| □ | Peak | B-4 | R-5 | 5 | Tmv | 750 | 26 |
| △ | Ultimate | | | | | 450 | 27 |

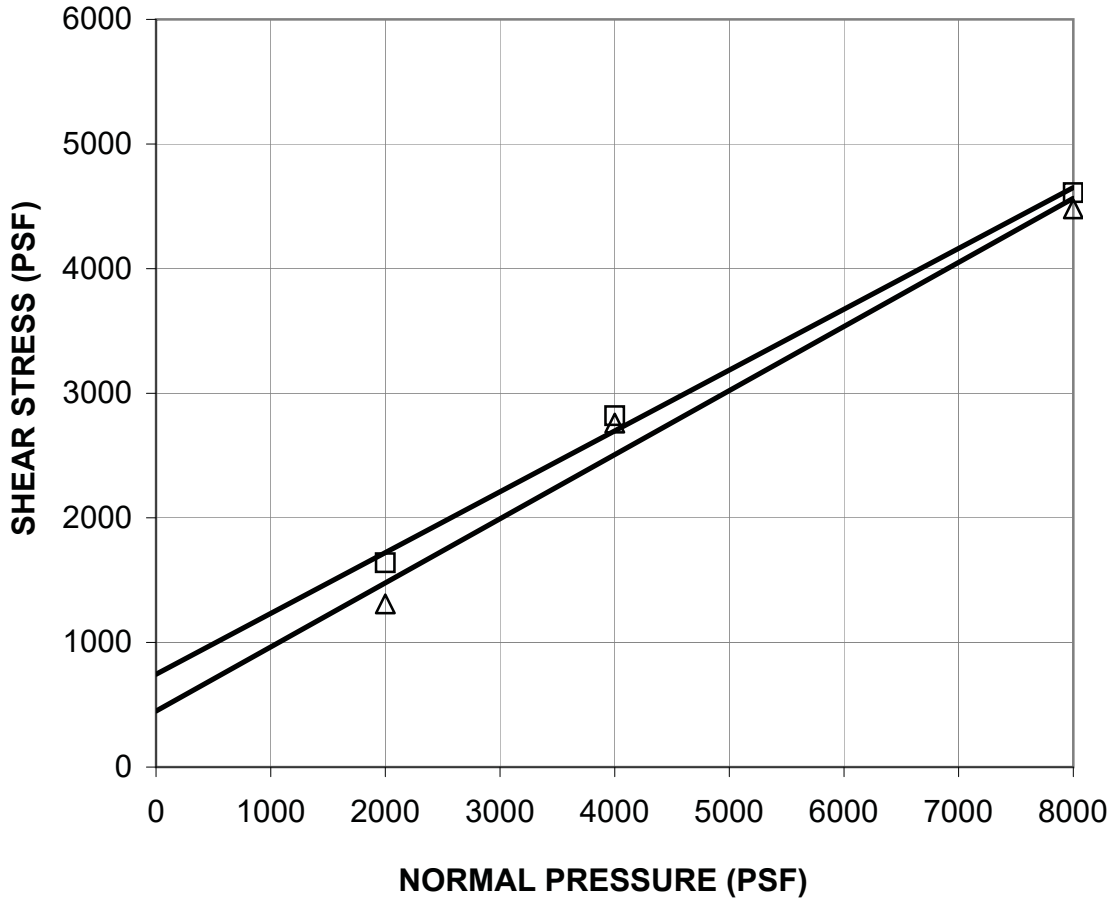
| | | | |
|---|---|---|---|
| Vertical Loads (psf) | 2000 | 4000 | 8000 |
| Moisture Content Before Test (%) | 39.5 | 38.3 | 40.1 |
| Moisture Content After Test (%) | 47.3 | 44.8 | 44.5 |

GROUP DELTA CONSULTANTS

L-958 Dana MS Slope

B-4 @ 5 Feet

Figure B-4




| Symbol | | Borehole Number | Sample Number | Depth (ft) | Soil Type | Cohesion (psf) | Friction Angle (°) |
|---|---|---|---|---|---|---|---|
| □ | Peak | B-4 | R-15 | 15 | Tmv | 1160 | 24 |
| △ | Ultimate | | | | | 1000 | 23 |

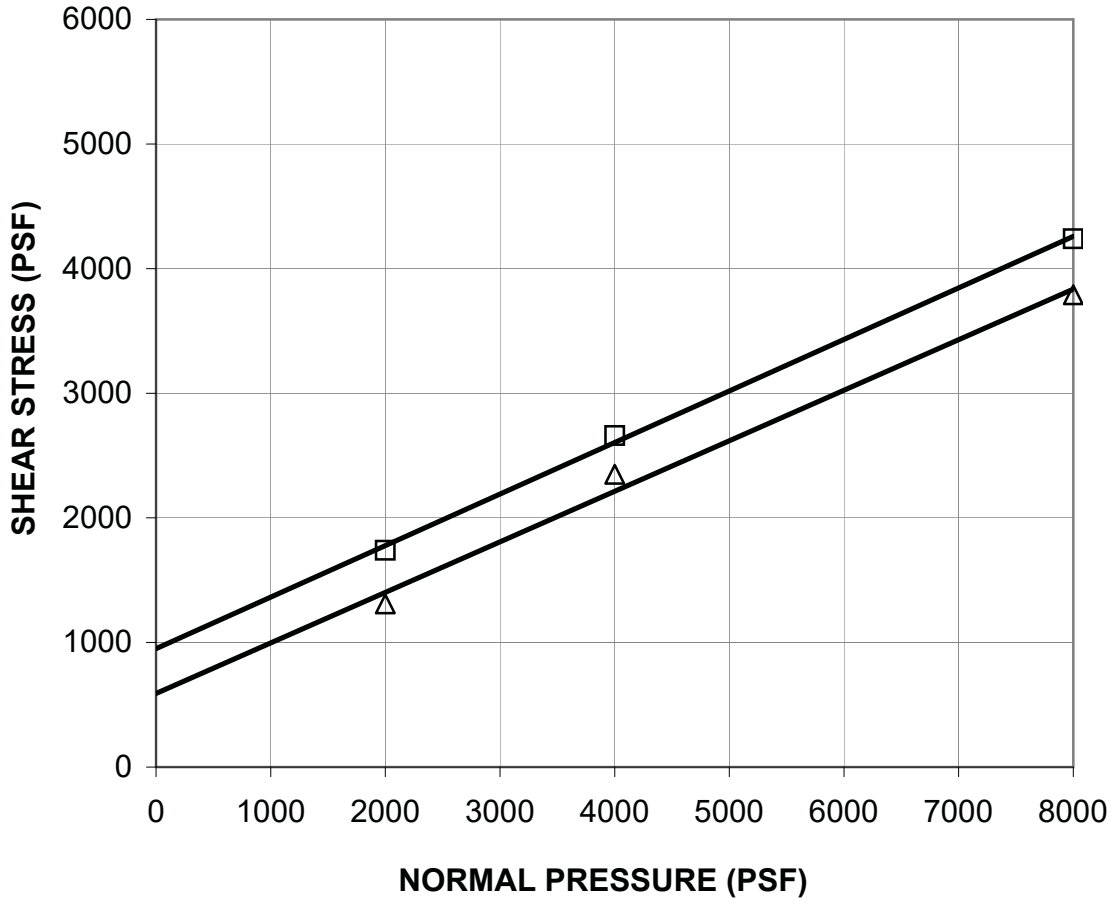
| Vertical Loads (psf) | 2000 | 4000 | 8000 |
|---|---|---|---|
| Moisture Content Before Test (%) | 121.9 | 123.6 | 115.6 |
| Moisture Content After Test (%) | 135.1 | 138.3 | 123.4 |

GROUP DELTA CONSULTANTS

L-958 Dana MS Slope

B-4 @ 15 Feet

Figure B-5




| Symbol | | Borehole Number | Sample Number | Depth (ft) | Soil Type | Cohesion (psf) | Friction Angle (°) |
|---|---|---|---|---|---|---|---|
| □ | Peak | B-5 | R-10 | 10 | Tmv | 950 | 22 |
| △ | Ultimate | | | | | 590 | 22 |

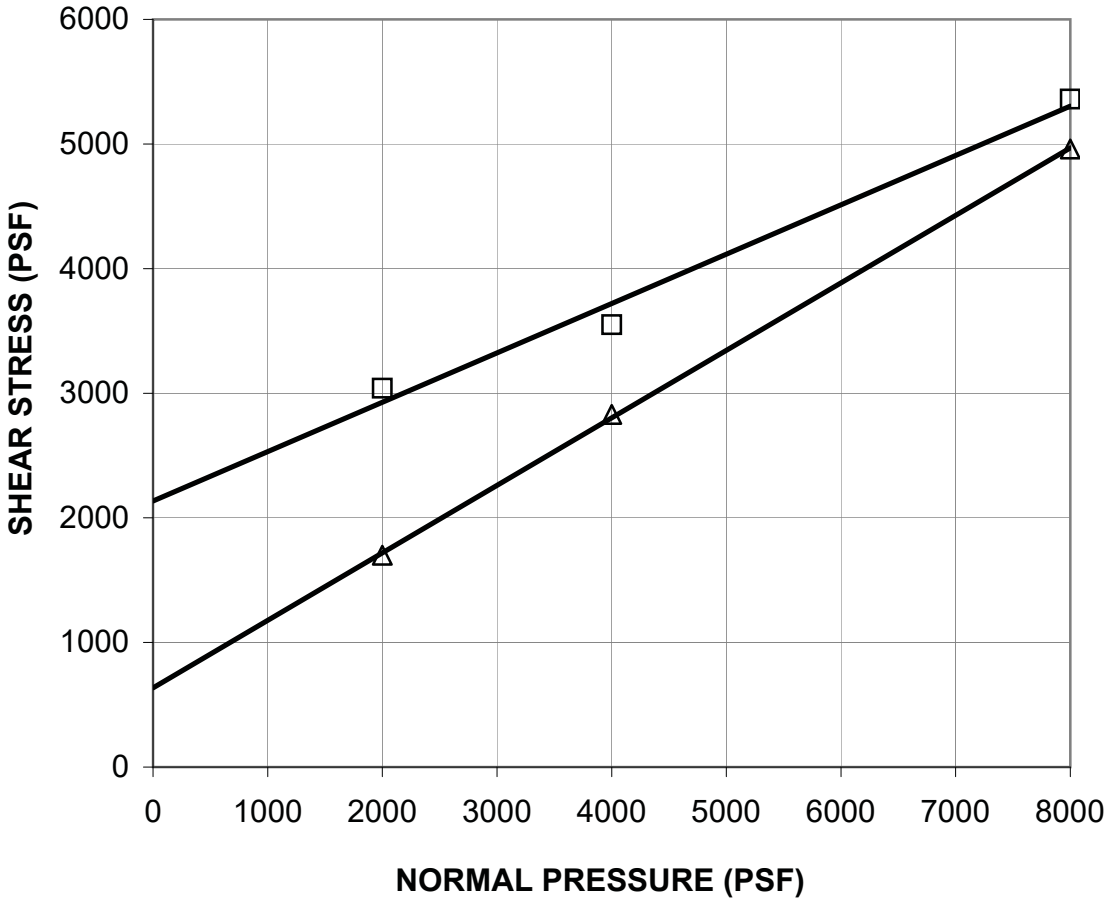
| | | | |
|---|---|---|---|
| Vertical Loads (psf) | 2000 | 4000 | 8000 |
| Moisture Content Before Test (%) | 89.6 | 86.2 | 83.2 |
| Moisture Content After Test (%) | 98 | 93.2 | 88.3 |

GROUP DELTA CONSULTANTS

L-958 Dana MS Slope

B-5 @ 10 Feet

Figure B-6




| Symbol | | Borehole Number | Sample Number | Depth (ft) | Soil Type | Cohesion (psf) | Friction Angle (°) |
|---|---|---|---|---|---|---|---|
| □ | Peak | B-4 | R-10 | 10 | Tmv | 2130 | 22 |
| △ | Ultimate | | | | | 640 | 28 |

| Vertical Loads (psf) | 2000 | 4000 | 8000 |
|---|---|---|---|
| Moisture Content Before Test (%) | 77 | 69.5 | 76.2 |
| Moisture Content After Test (%) | 86.8 | 77.3 | 81.8 |

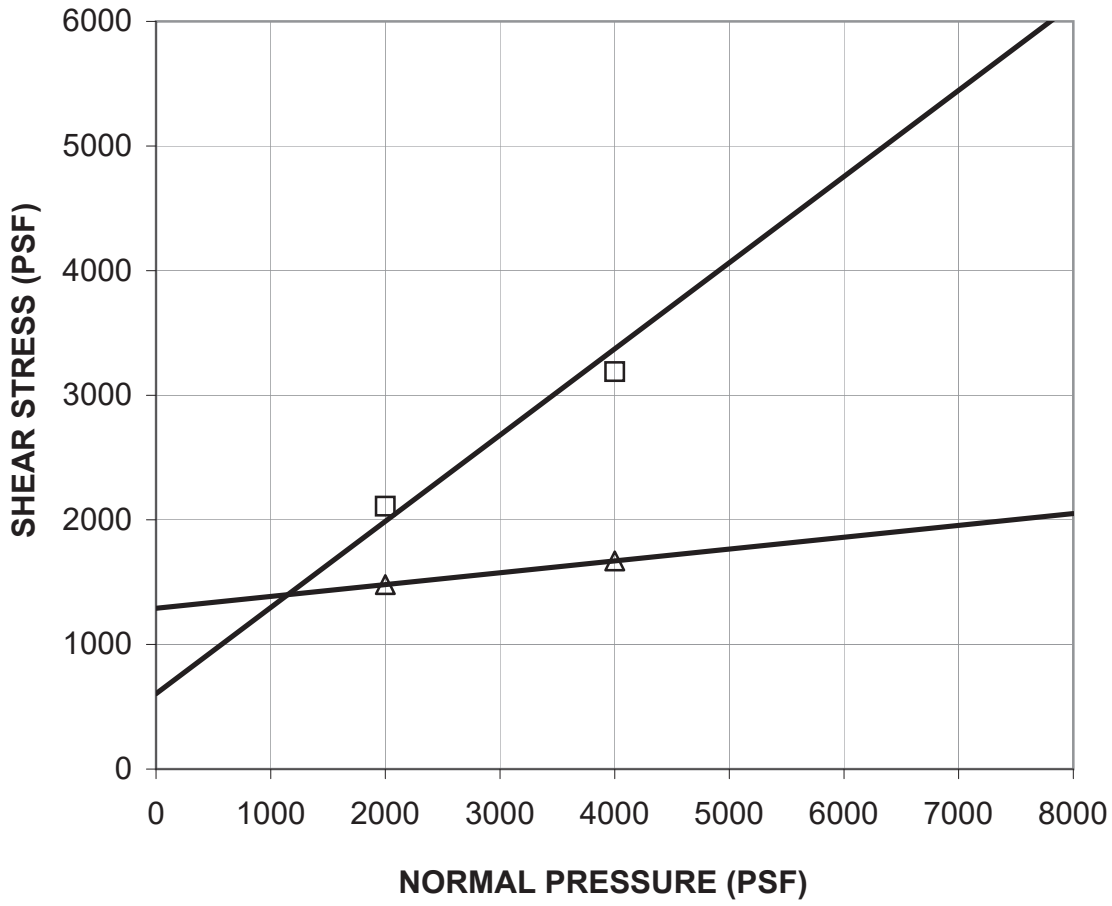
**PASS ONE**

GROUP DELTA CONSULTANTS

L-958 Dana MS Slope

B-4 @ 10 Feet

Figure B-10




| Symbol | | Borehole Number | Sample Number | Depth (ft) | Soil Type | Cohesion (psf) | Friction Angle (°) |
|---|---|---|---|---|---|---|---|
| □ | Peak | B-4 | R-10 | 10 | Tmv | 610 | 35 |
| △ | Ultimate | | | | | 1290 | 5.5 |

| | | | |
|---|---|---|---|
| Vertical Loads (psf) | 2000 | 4000 | 8000 |
| Moisture Content Before Test (%) | 77 | 69.5 | 76.2 |
| Moisture Content After Test (%) | 86.8 | 77.3 | 81.8 |

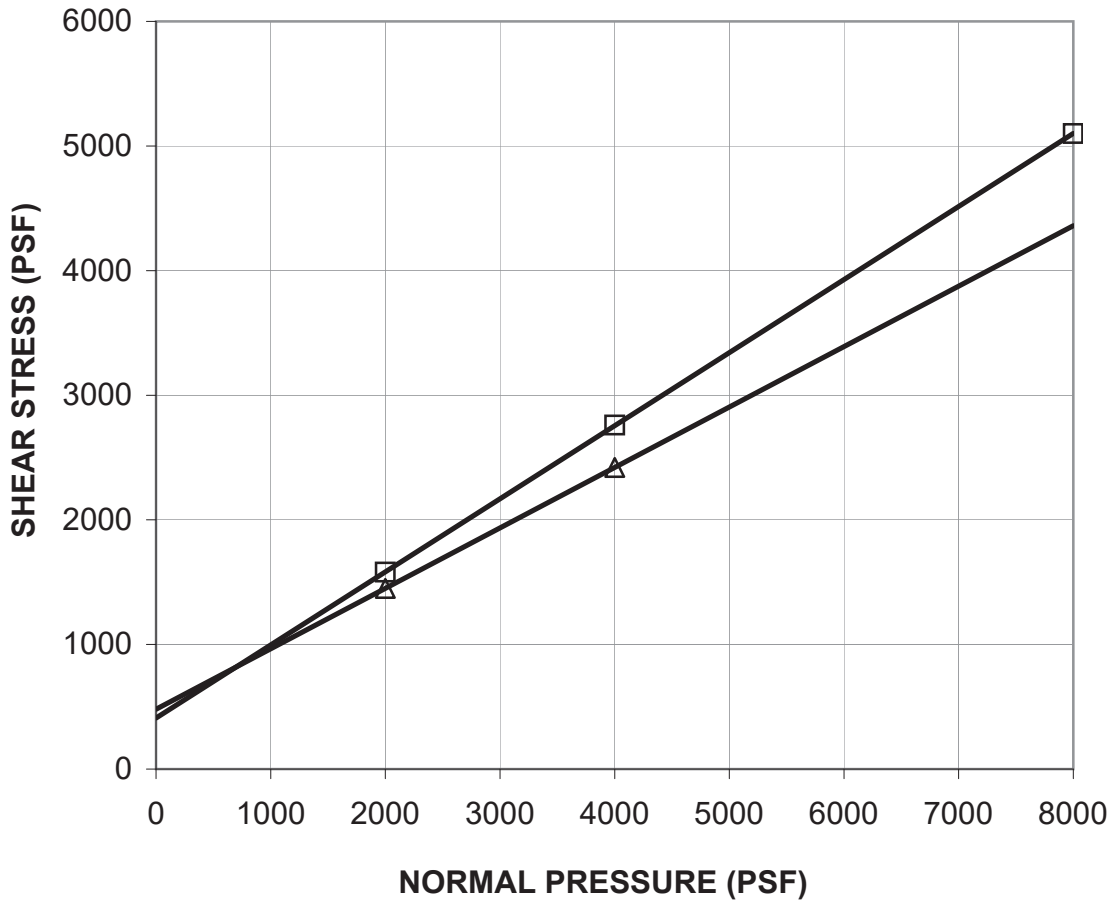
**PASS TWO**

GROUP DELTA CONSULTANTS

L-958 Dana MS Slope

B-4 @ 10 Feet

Figure B-11




| Symbol | | Borehole Number | Sample Number | Depth (ft) | Soil Type | Cohesion (psf) | Friction Angle (°) |
|---|---|---|---|---|---|---|---|
| □ | Peak | B-4 | R-10 | 10 | Tmv | 410 | 30 |
| △ | Ultimate | | | | | 480 | 25.9 |

| | | | |
|---|---|---|---|
| Vertical Loads (psf) | 2000 | 4000 | 8000 |
| Moisture Content Before Test (%) | 77 | 69.5 | 76.2 |
| Moisture Content After Test (%) | 86.8 | 77.3 | 81.8 |

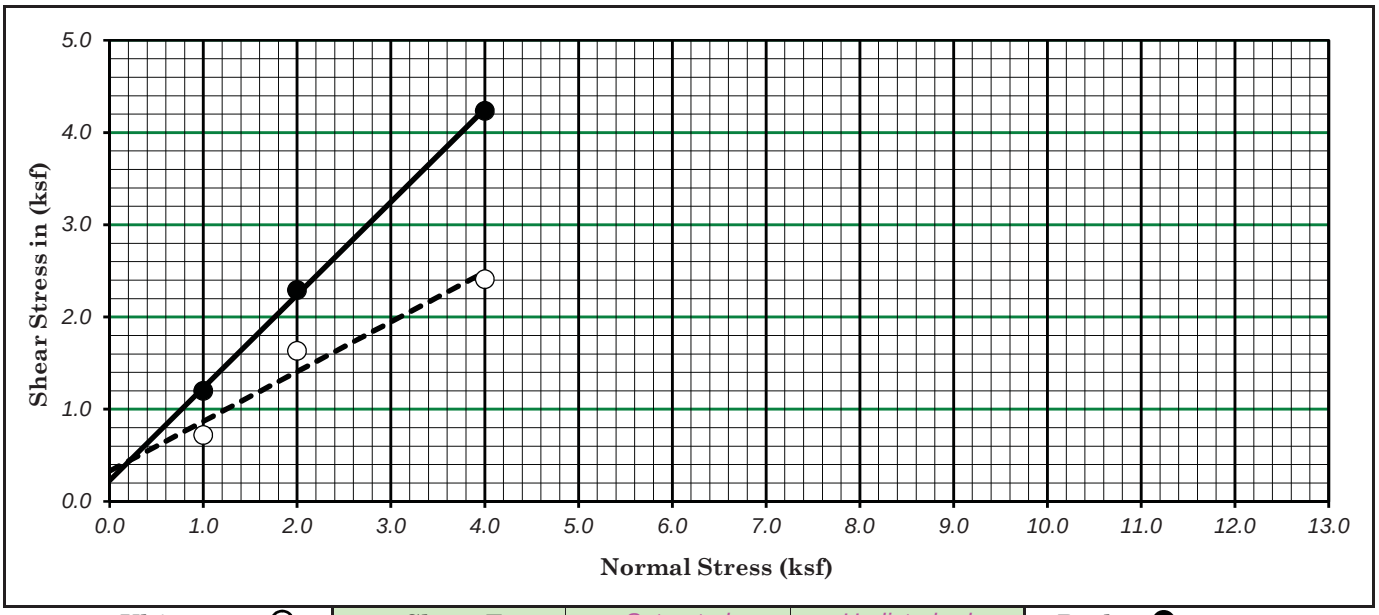
**PASS THREE**

GROUP DELTA CONSULTANTS

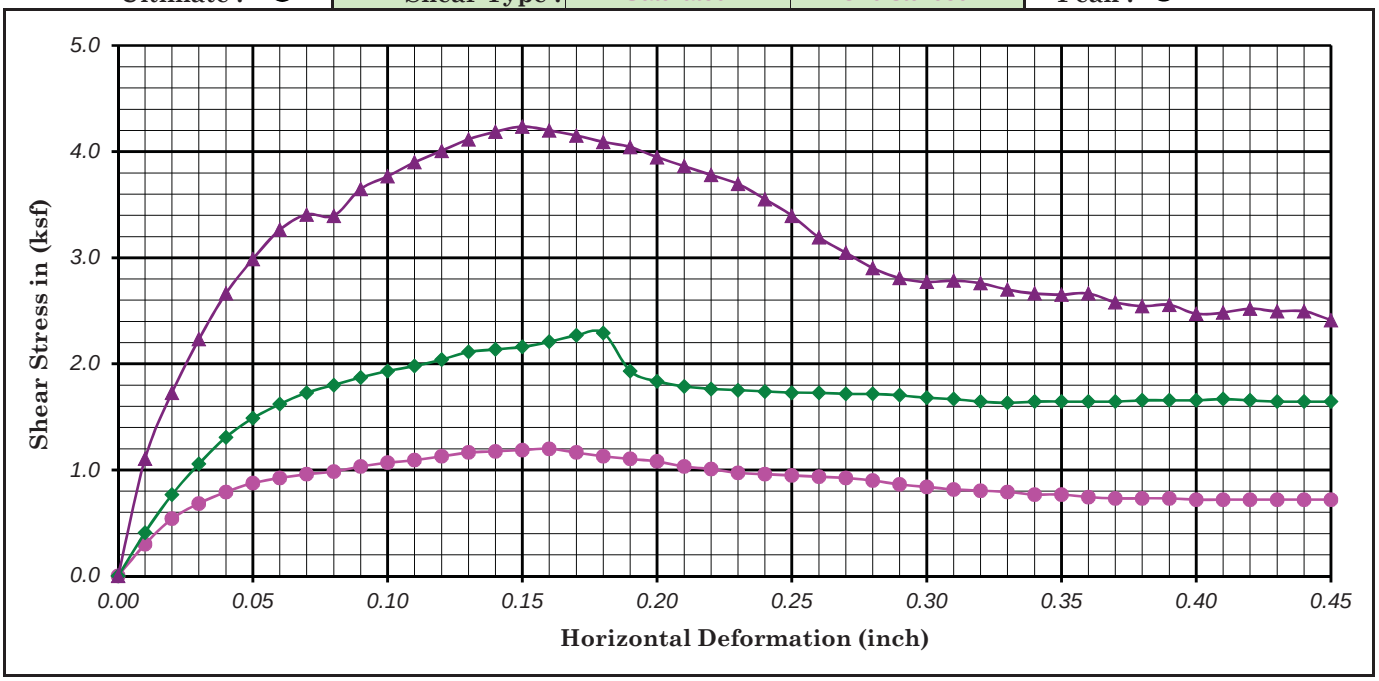
L-958 Dana MS Slope

B-4 @ 10 Feet

Figure B-12




Ultimate : ○ | Shear Type : Saturated | Undisturbed | Peak : ●




| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Boring No. : B-1 | | Strength Intercept (C) : | 0.23 | (ksf) | Peak | 0.33 | (ksf) | Ultimate |
| Sample No. : R4 | | | 10.92 | (kPa) | | 15.80 | (kPa) | |
| Depth (ft/m) : 15.0 | 4.58 | Friction Angle ( ϕ ) : | 45.18 | Degree | | 28.33 | Degree | |
| Description : Yellowish Brown Siltstone / Diatomaceous | | | | | | Shear Rate (inch/minute) : | | 0.005 |

| SYMBOL | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | DRY DENSITY ($kN/m^3$) | VOID RATIO | NORMAL STRESS (ksf) | NORMAL STRESS (kPa) | PEAK STRESS (ksf) | PEAK STRESS (kPa) | ULTIMATE STRESS (ksf) | ULTIMATE STRESS (kPa) |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | 167.65 | 31.75 | 5.00 | 4.31 | 1.00 | 47.88 | 1.20 | 57.46 | 0.72 | 34.47 |
| ◆ | 151.28 | 34.38 | 5.41 | 3.90 | 2.00 | 95.76 | 2.29 | 109.74 | 1.63 | 78.14 |
| ▲ | 178.33 | 30.27 | 4.76 | 4.57 | 4.00 | 191.52 | 4.24 | 202.82 | 2.41 | 115.49 |
| | | | | | | | | | | |

GROUP DELTA CONSULTANTS

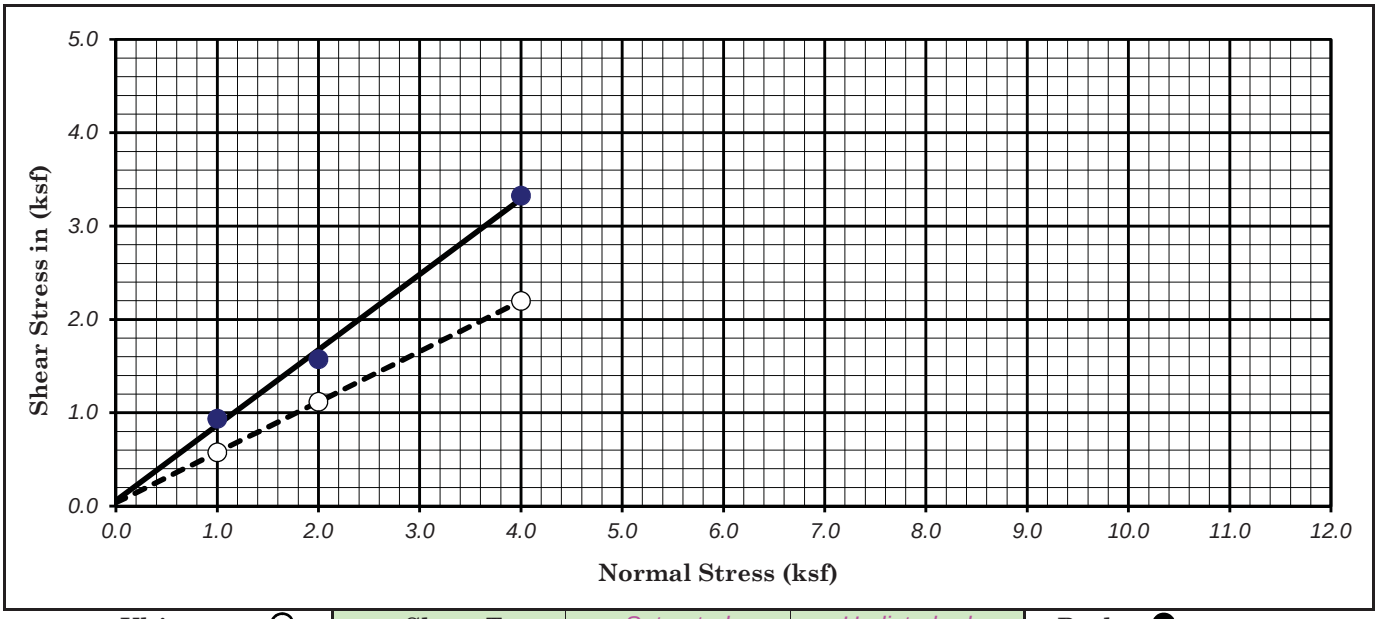
**San Pedro High School**

**DIRECT SHEAR TEST**
(ASTM D -3080)

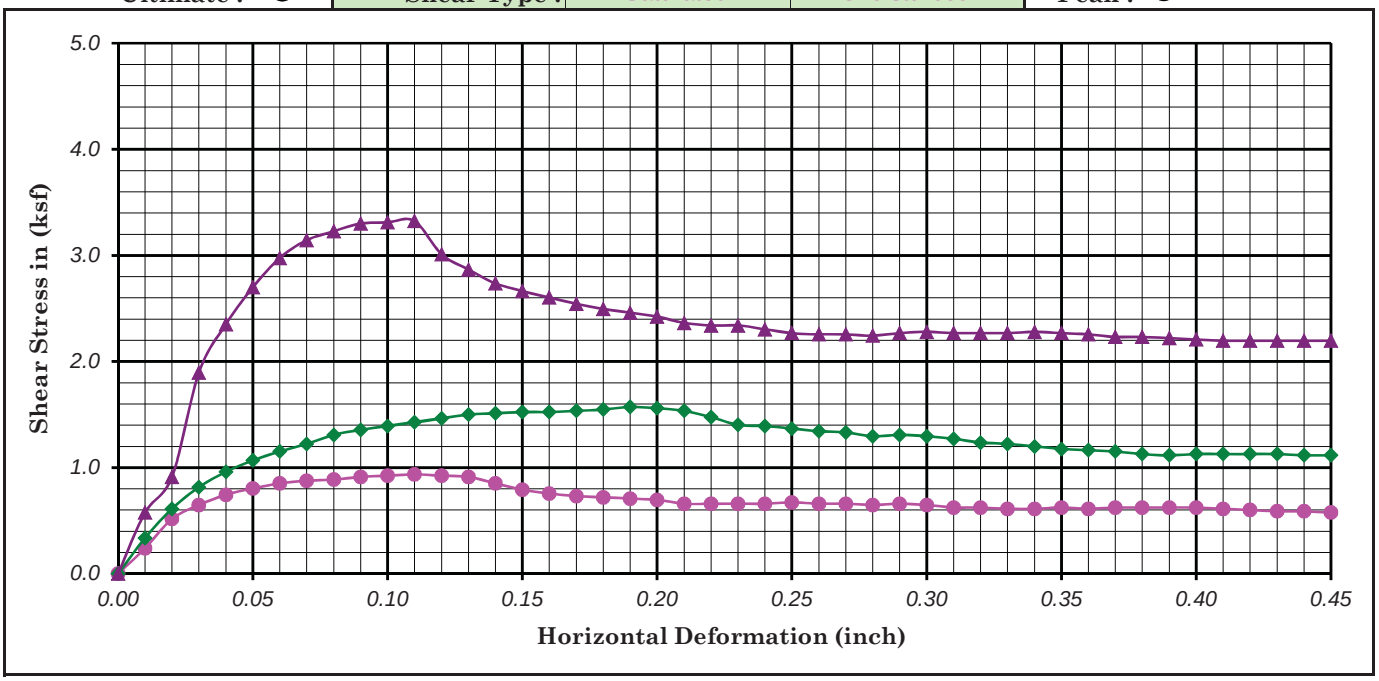
Project No. : LA1204

Date : 07/18/14

Figure No. : B-4




| Ultimate : ○ | Shear Type : | Saturated | Undisturbed | Peak : ● |
|---|---|---|---|---|




| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Boring No. : B-2 | | Strength Intercept (C) : | 0.06 | (ksf) | Peak | 0.04 | (ksf) | Ultimate |
| Sample No. : R5 | | | 2.87 | (kPa) | | 1.72 | (kPa) | |
| Depth (ft/m) : 20.0 | 6.10 | Friction Angle ( ϕ ) : | 38.92 | Degree | | 28.37 | Degree | |
| Description : Light Olive Brown Siltstone - Sandstone | | | | | Shear Rate (inch/minute) : | | 0.005 | |

| SYMBOL | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | DRY DENSITY ($kN/m^3$) | VOID RATIO | NORMAL STRESS (ksf) | NORMAL STRESS (kPa) | PEAK STRESS (ksf) | PEAK STRESS (kPa) | ULTIMATE STRESS (ksf) | ULTIMATE STRESS (kPa) |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | 34.27 | 92.18 | 14.51 | 0.83 | 1.00 | 47.88 | 0.94 | 44.82 | 0.58 | 27.58 |
| ◆ | 29.85 | 97.53 | 15.35 | 0.73 | 2.00 | 95.76 | 1.57 | 75.27 | 1.12 | 53.43 |
| ▲ | 33.10 | 93.30 | 14.68 | 0.81 | 4.00 | 191.52 | 3.32 | 159.15 | 2.20 | 105.14 |
| | | | | | | | | | | |

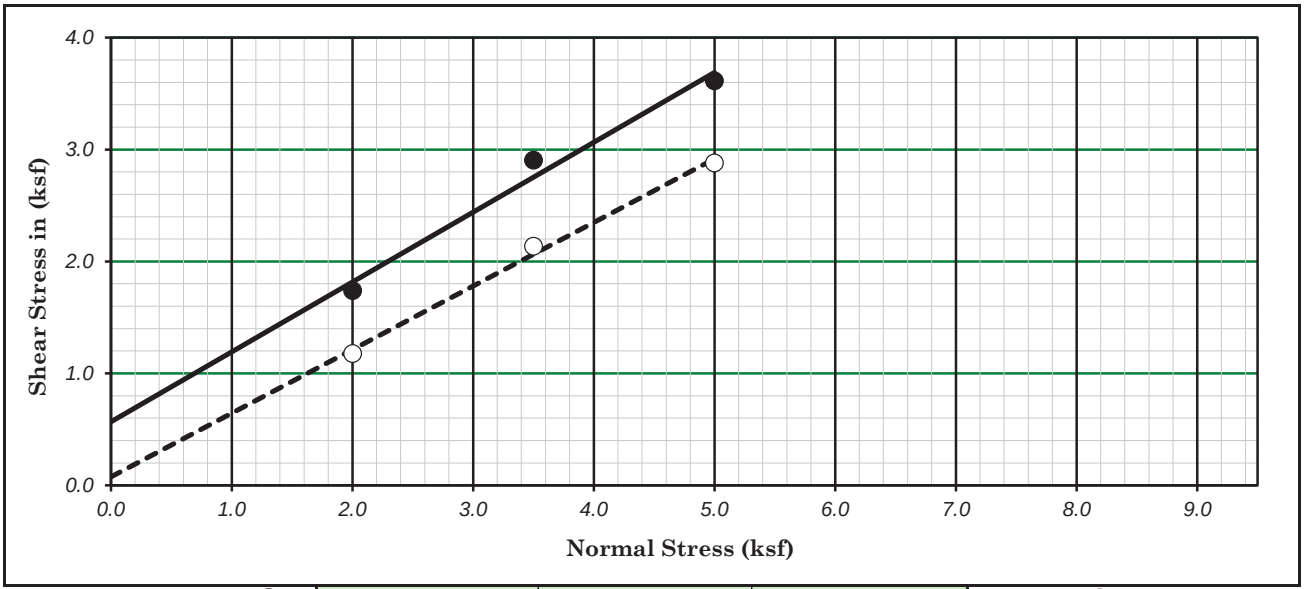
GROUP DELTA CONSULTANTS

**San Pedro High School**

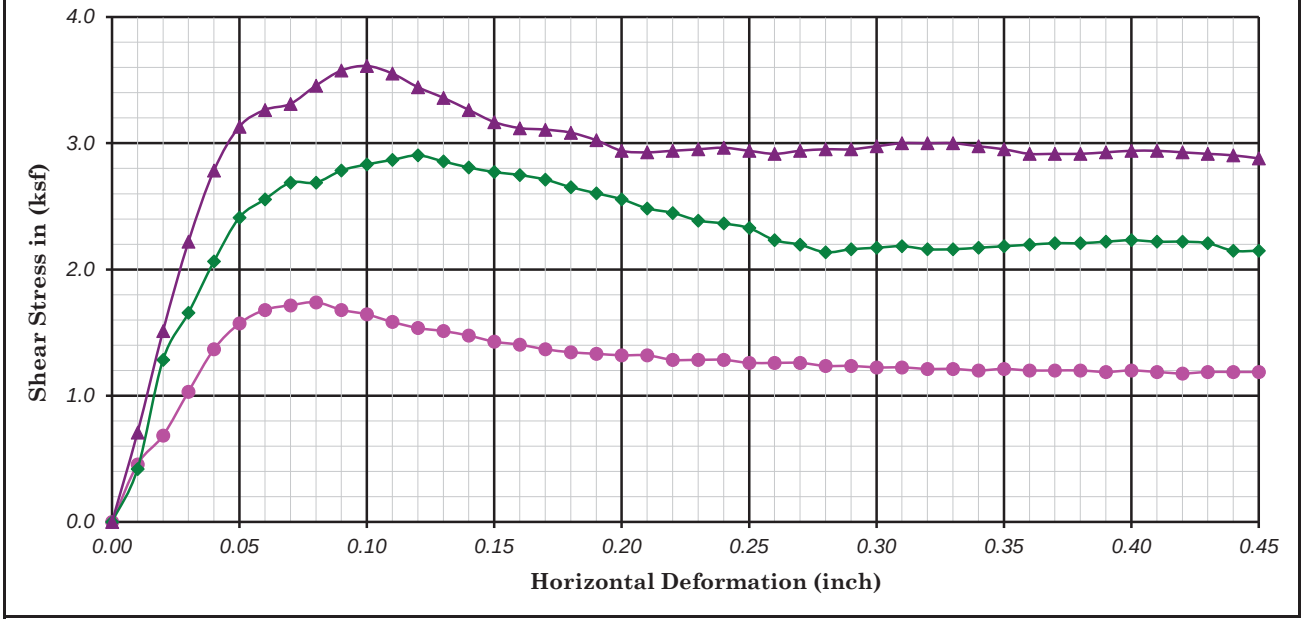
**Project No. :** LA1204 **Date :** 07/18/14

# DIRECT SHEAR TEST
(ASTM D -3080)

Figure No. : B-5




Ultimate : ○ | Shear Type : Saturated | Undisturbed | Peak : ●




| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Boring No. : B-1 | | Strength Intercept (C) : | 0.57 | (ksf) | Peak | 0.08 | (ksf) | Ultimate |
| Sample No. : R2 | | | 27.19 | (kPa) | | 3.63 | (kPa) | |
| Depth (ft/m) : 5.0 | 1.53 | Friction Angle ( ϕ ) : | 31.97 | Degree | | 29.60 | Degree | |

Description : Olive Brown to Pale Yellow Silt or Clay to Claystone/Siltstone — Shear Rate (inch/minute) : 0.0025

| SYMBOL | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | DRY DENSITY ($kN/m^3$) | VOID RATIO | NORMAL STRESS (ksf) | NORMAL STRESS (kPa) | PEAK STRESS (ksf) | PEAK STRESS (kPa) | ULTIMATE STRESS (ksf) | ULTIMATE STRESS (kPa) |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | 73.27 | 58.87 | 9.27 | 1.86 | 2.00 | 95.76 | 1.74 | 83.31 | 1.18 | 56.31 |
| ◆ | 61.01 | 67.31 | 10.59 | 1.50 | 3.50 | 167.58 | 2.90 | 139.04 | 2.14 | 102.27 |
| ▲ | 49.59 | 77.54 | 12.20 | 1.17 | 5.00 | 239.39 | 3.61 | 172.94 | 2.88 | 137.89 |
| | | | | | | | | | | |

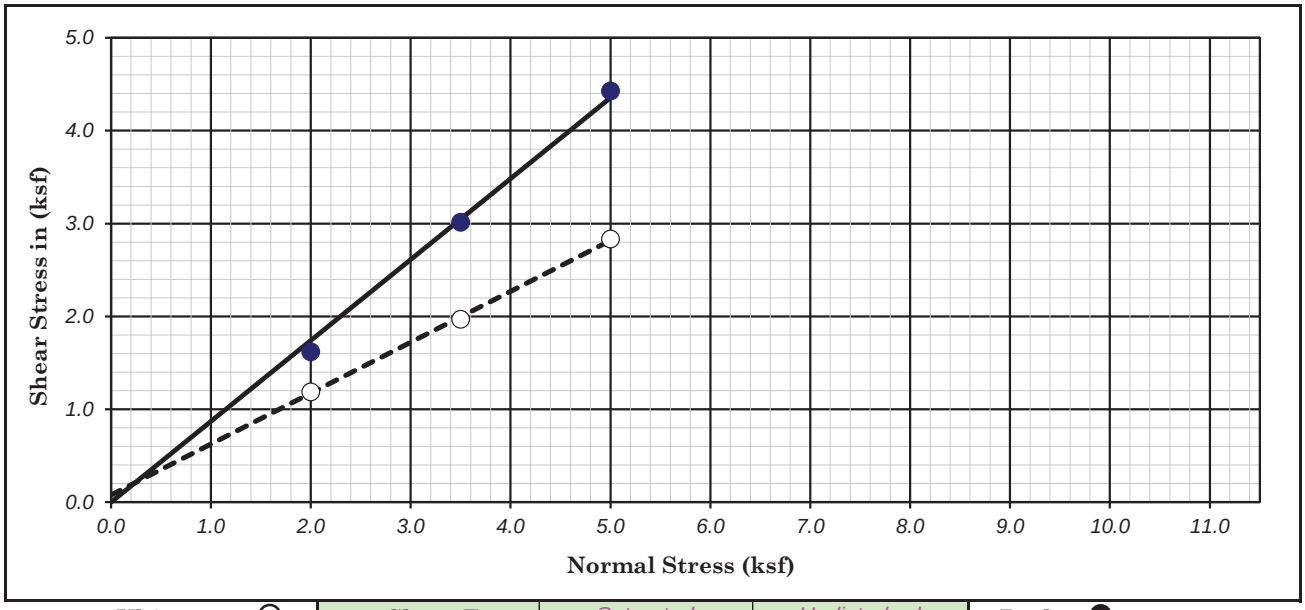
GROUP DELTA

**San Pedro High School**

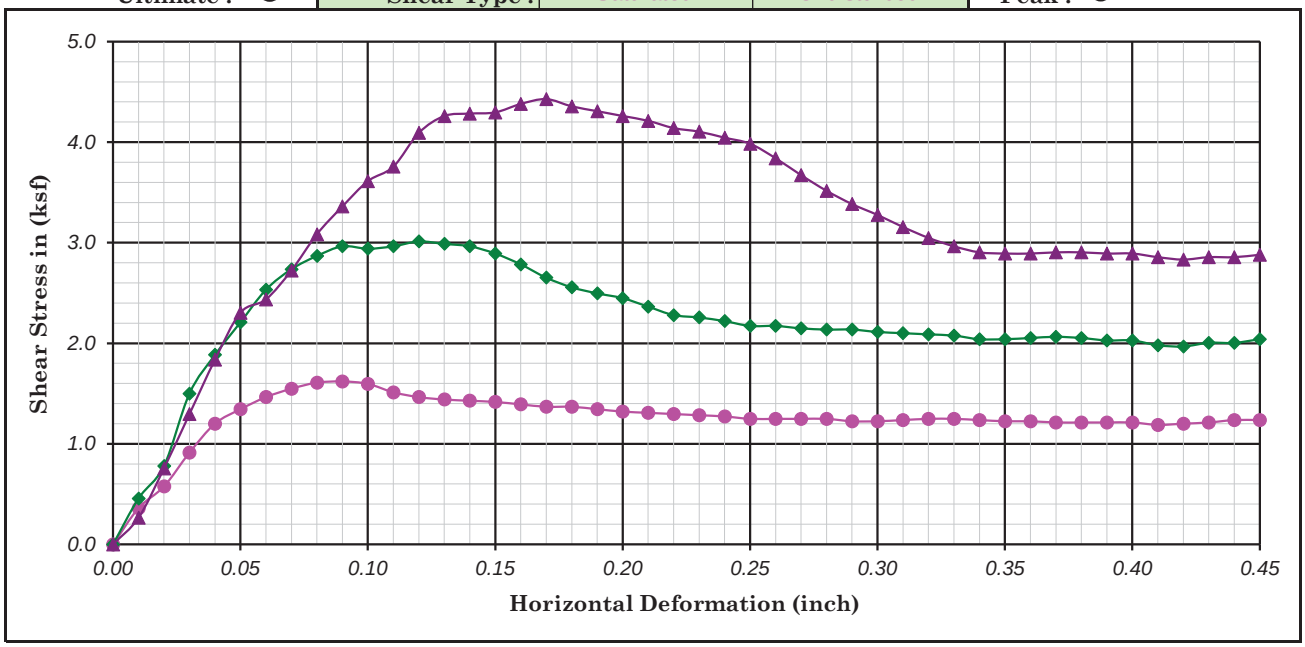
Project No. : LA1244 | Date : 07/08/15

**DIRECT SHEAR TEST**
(ASTM D -3080)

Figure No. : 1




Ultimate : ○ | Shear Type : Saturated | Undisturbed | Peak : ●




| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Boring No. : B-2 | | Strength Intercept (C) : | 0.00 | (ksf) | Peak | 0.08 | (ksf) | Ultimate |
| Sample No. : R3 | | | 0.00 | (kPa) | | 3.73 | (kPa) | |
| Depth (ft/m) : 10.0 | 3.05 | Friction Angle ( ϕ ) : | 41.05 | Degree | | 28.72 | Degree | |
| Description : Light Olive Brown Silt or Clay to Claystone/Siltstone/Diatomaceous | | | | | Shear Rate (inch/minute) : | | 0.0025 | |

| SYMBOL | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | DRY DENSITY ($kN/m^3$) | VOID RATIO | NORMAL STRESS (ksf) | NORMAL STRESS (kPa) | PEAK STRESS (ksf) | PEAK STRESS (kPa) | ULTIMATE STRESS (ksf) | ULTIMATE STRESS (kPa) |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | 98.90 | 47.34 | 7.45 | 2.56 | 2.00 | 95.76 | 1.62 | 77.57 | 1.19 | 56.88 |
| ◆ | 88.70 | 51.82 | 8.16 | 2.25 | 3.50 | 167.58 | 3.01 | 144.21 | 1.97 | 94.23 |
| ▲ | 104.93 | 45.14 | 7.11 | 2.73 | 5.00 | 239.39 | 4.43 | 212.01 | 2.83 | 135.60 |
| | | | | | | | | | | |

GROUP DELTA

**San Pedro High School**

Project No. : LA1244 | Date : 07/08/15

**DIRECT SHEAR TEST**
(ASTM D -3080)

Figure No. : 2

# EXPANSION INDEX OF SOIL



**ASTM D-4829-10 / UBC 29-2**

| | | | | | |
|---|---|---|---|---|---|
| **Project Name** | : San Pedro High School | | | | |
| **Project No.** | : LA1172 | **Sampled By :** SG | | **Date :** 11/27/13 | |
| **Boring No.** | : B-4 | **Prepared By :** Eric Y. | | **Date :** 12/05/13 | |
| **Sample No.** | : B1 | **Test By :** Eric Y. | | **Date :** 12/05/13 | |
| **Depth** (ft/m) | : 0 ### | **Calculated By :** Eric Y. | | **Date :** 12/06/13 | |
| **Location** | : | **Checked By :** | | **Date :** | |
| **Description** | : Very Dark Grayish Brown Silty Sand and Clay with Traces of Gravel, Crush Concrete, and Asphalt | | | | |

## Sample Preparation

| | | | | | |
|---|---|---|---|---|---|
| **Weight of Total Soil** | 3192.50 | **Weight of Soil Retained on No. 4 Sieve** | 39.00 | **% Passing No. 4 Sieve** | 98.78 |

| Trail | Field | 2 | 3 | 4 | Tested | M & D After Test | |
|---|---|---|---|---|---|---|---|
| Container No. | P3 | | | | | Container No. | |
| Weight of Wet Soil + Container (gm) | 1111.30 | | | | | Wet Soil+Cont.+Ring | |
| Weight of Dry Soil + Container (gm) | 1082.70 | | | | | Dry Soil+Cont.+Ring | |
| Weight of Container (gm) | 797.60 | | | | | Wt. of Container | |
| Moisture Content (%) | 10.03 | | | | 10.03 | Moisture Content | |
| Weight of Wet Soil + Ring (gm) | 599.11 | | | | | | |
| Weight of Ring (gm) No. | 200.97 | | | | 200.97 | | |
| Weight of Wet Soil (gm) | 398.14 | | | | | | |
| Wet Density of Soil (pcf) | 120.10 | | | | | Wet Density (pcf) | |
| Dry Density of Soil (pcf) | 109.15 | | | | | Dry Density (pcf) | |
| Precent Saturation of Soil $S_{(Meas.)}$ | 49.76 | | | | 49.76 | (%) Saturation | |

**Loading Machine No.**

| Date | Reading Time | Elapsed Time | Dial Reading | Expansion |
|---|---|---|---|---|
| 12/05/13 | 15:20:00 | 0:10:00 | | 0.0000 |
| 12/05/13 | | | | |
| 12/05/13 | 15:30:00 | **0:00:00** | **0.5000** | **0.0000** |
| **Add Distilled Water to Sample** | | | | |
| | | | 0.5000 | 0.0000 |
| | 16:30:00 | 1:00:00 | 0.5470 | 0.0470 |
| | 17:30:00 | 2:00:00 | 0.5480 | 0.0480 |
| | | | | |
| | | | | |
| | | | | |
| 12/06/13 | 8:30:00 | 17:00:00 | 0.5490 | 0.0490 |
| 12/06/13 | 9:30:00 | 18:00:00 | 0.5490 | 0.0490 |
| 12/06/13 | 11:30:00 | 20:00:00 | 0.5490 | 0.0490 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

*Remark :*

1. *Screen sample through* **No. 4** *Sieve*
2. *Sample should be compacted into a metal ring of the Degree of Saturation of* **50 +/- 2% ( 48 - 52 ).**
3. *Inundated sample in distilled water to 24 h, or until the rate of expansion > (0.0002 in./h), no less than 3 h.*

| | | | |
|---|---|---|---|
| **Volume of Mold** ($ft^3$) | 0.00731 | Specific Gravity | 2.70 |
| **Rammer Weight** (lb.) | 5.0 | **Blows/Layer** | 15 |
| **Vertical Confining Pressure** | | 1.0 ($lbf/in^2$) / 6.9 (kPa) | |

$$(\%)\ S = \frac{S.G. \times W \times Dd}{Wd \times S.G. - Dd}$$

**S.G.**=Specific Gravity, **W**=Water Content
**Dd**=Dry Soil Density, **Wd**=Unit Wt. of Water

$$E.I._{(meas)} = \frac{\text{Change in High}}{\text{Initial Thickness}} \times 1000 = 49.00$$

$$\text{Expansion Index}_{(50)} = EI_{(meas.)} - (50 - S_{(meas.)}) \times \frac{65 + EI_{(meas.)}}{220 - S_{(meas.)}}$$

| | |
|---|---|
| **49** | **Low** |

| Expansion Index | Potential Expansion |
|---|---|
| 0 - 20 | *Very Low* |
| 21 - 50 | *Low* |
| 51 - 90 | *Medium* |
| 91 - 130 | *High* |
| > 130 | *Very High* |

# EXPANSION INDEX OF SOIL



**ASTM D-4829-10 / UBC 29-2**

| | | | | | |
|---|---|---|---|---|---|
| **Project Name** | : San Pedro High School | | | | |
| **Project No.** | : LA1172 | **Sampled By :** SG | | **Date :** 11/27/13 | |
| **Boring No.** | : B-5 | **Prepared By :** Eric Y. | | **Date :** 12/12/13 | |
| **Sample No.** | : B1 | **Test By :** Eric Y. | | **Date :** 12/12/13 | |
| **Depth** (ft/m) | : 0 | **Calculated By :** Eric Y. | | **Date :** 12/13/13 | |
| **Location** | : | **Checked By :** | | **Date :** | |
| **Description** | : Very Dark Gray Clay with Taces of Gravel | | | | |

## Sample Preparation

| | | | | | |
|---|---|---|---|---|---|
| **Weight of Total Soil** | 1332.50 | **Weight of Soil Retained on No. 4 Sieve** | 29.30 | **% Passing No. 4 Sieve** | 97.80 |

| **Trail** | 1 | 2 | 3 | 4 | Tested | M & D After Test | |
|---|---|---|---|---|---|---|---|
| **Container No.** | P3 | | | | | **Container No.** | |
| **Weight of Wet Soil + Container (gm)** | 1015.00 | | | | | **Wet Soil+Cont.+Ring** | |
| **Weight of Dry Soil + Container (gm)** | 985.80 | | | | | **Dry Soil+Cont.+Ring** | |
| **Weight of Container (gm)** | 797.60 | | | | | **Wt. of Container** | |
| **Moisture Content (%)** | 15.52 | | | | 15.52 | **Moisture Content** | |
| **Weight of Wet Soil + Ring (gm)** | 552.70 | | | | | | |
| **Weight of Ring (gm)** **No.** | 202.57 | | | | 202.57 | | |
| **Weight of Wet Soil (gm)** | 350.13 | | | | | | |
| **Wet Density of Soil (pcf)** | 105.61 | | | | | **Wet Density (pcf)** | |
| **Dry Density of Soil (pcf)** | 91.43 | | | | | **Dry Density (pcf)** | |
| **Precent Saturation of Soil** $S_{(Meas.)}$ | 49.66 | | | | 49.66 | **(%) Saturation** | |

| **Loading Machine No.** | | | | |
|---|---|---|---|---|
| **Date** | **Reading Time** | **Elapsed Time** | **Dial Reading** | **Expansion** |
| 12/12/13 | 9:20:00 | 0:10:00 | | 0.0000 |
| 12/12/13 | | | | |
| 12/12/13 | 9:30:00 | **0:00:00** | **0.5000** | **0.0000** |
| **Add Distilled Water to Sample** | | | | |
| | | | 0.5000 | 0.0000 |
| | 10:30:00 | 1:00:00 | 0.5830 | 0.0830 |
| | 11:30:00 | 2:00:00 | 0.5860 | 0.0860 |
| | 12:30:00 | 3:00:00 | 0.5870 | 0.0870 |
| | 13:30:00 | 4:00:00 | 0.5880 | 0.0880 |
| | 16:30:00 | 7:00:00 | 0.5890 | 0.0890 |
| 12/13/13 | 7:30:00 | 22:00:00 | 0.5920 | 0.0920 |
| 12/13/13 | 8:30:00 | 23:00:00 | 0.5920 | 0.0920 |
| 12/13/13 | 9:30:00 | 0:00:00 | 0.5920 | 0.0920 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

*Remark :*

1. *Screen sample through* **No. 4** *Sieve*
2. *Sample should be compacted into a metal ring of the Degree of Saturation of* **50 +/- 2% ( 48 - 52 ).**
3. *Inundated sample in distilled water to 24 h, or until the rate of expansion > (0.0002 in./h), no less than 3 h.*

| | | | |
|---|---|---|---|
| **Volume of Mold** ($ft^3$) | 0.00731 | **Specific Gravity** | 2.70 |
| **Rammer Weight** (lb.) | 5.0 | **Blows/Layer** | 15 |
| **Vertical Confining Pressure** | | 1.0 ($lbf/in^2$) / 6.9 (kPa) | |

$$(\%)\ S = \frac{S.G. \times W \times Dd}{Wd \times S.G. - Dd}$$

**S.G.**=Specific Gravity, **W**=Water Content
**Dd**=Dry Soil Density, **Wd**=Unit Wt. of Water

$$E.I._{(meas)} = \frac{\text{Change in High}}{\text{Initial Thickness}} \times 1000 = 92.00$$

$$\text{Expansion Index}_{(50)} = EI_{(meas.)} - (50 - S_{(meas.)}) \times \frac{65 + EI_{(meas.)}}{220 - S_{(meas.)}}$$

| | |
|---|---|
| **92** | **High** |

| Expansion Index | Potential Expansion |
|---|---|
| 0 - 20 | *Very Low* |
| 21 - 50 | *Low* |
| 51 - 90 | *Medium* |
| 91 - 130 | *High* |
| > 130 | *Very High* |

# EXPANSION INDEX OF SOIL



**ASTM D-4829-10 / UBC 29-2**

| | | | | | |
|---|---|---|---|---|---|
| **Project Name** | : San Pedro HS | | | | |
| **Project No.** | : LA1204 | **Sampled By :** | S. Stone | **Date :** | 07/02/14 |
| **Boring No.** | : B-2 | **Prepared By :** | Eric Y. | **Date :** | 07/16/14 |
| **Sample No.** | : B-2 | **Test By :** | Eric Y. | **Date :** | 07/17/14 |
| **Depth (ft/m)** | : 6.5 - 10 ### | **Calculated By :** | Eric Y. | **Date :** | 07/18/14 |
| **Location** | : | **Checked By :** | | **Date :** | |
| **Description** | : Olive Brown Sandy Silt , Crush Siltstone with Clay and Traces of Gravel | | | | |

## Sample Preparation

| | | | | | |
|---|---|---|---|---|---|
| **Weight of Total Soil** | 3485.80 | **Weight of Soil Retained on No. 4 Sieve** | 82.80 | **% Passing No. 4 Sieve** | 97.62 |

| **Trail** | **Field** | **2** | **3** | **4** | **Tested** | **M & D After Test** | |
|---|---|---|---|---|---|---|---|
| **Container No.** | W-20 | P3 | | | | **Container No.** | |
| **Weight of Wet Soil + Container (gm)** | 653.00 | 1170.40 | | | | **Wet Soil+Cont.+Ring** | |
| **Weight of Dry Soil + Container (gm)** | 540.90 | 1108.60 | | | | **Dry Soil+Cont.+Ring** | |
| **Weight of Container (gm)** | 147.50 | 797.60 | | | | **Wt. of Container** | |
| **Moisture Content (%)** | 28.50 | 19.87 | | | 19.87 | **Moisture Content** | |
| **Weight of Wet Soil + Ring (gm)** | | 524.28 | | | | | |
| **Weight of Ring (gm)** No. 2.0 | | 198.82 | | | 198.82 | | |
| **Weight of Wet Soil (gm)** | | 325.46 | | | | | |
| **Wet Density of Soil (pcf)** | | 98.17 | | | | **Wet Density (pcf)** | |
| **Dry Density of Soil (pcf)** | | 81.90 | | | | **Dry Density (pcf)** | |
| **Precent Saturation of Soil** $S_{(Meas.)}$ | | 50.70 | | | 50.70 | **(%) Saturation** | |

| **Loading Machine No.** | | | **2** | |
|---|---|---|---|---|
| **Date** | **Reading Time** | **Elapsed Time** | **Dial Reading** | **Expansion** |
| 07/17/14 | 13:55:00 | 0:10:00 | | 0.0000 |
| 07/17/14 | | | | |
| 07/17/14 | 14:05:00 | **0:00:00** | **0.5000** | **0.0000** |
| **Add Distilled Water to Sample** | | | | |
| 07/17/14 | 15:05:00 | 1:00:00 | 0.5570 | 0.0570 |
| 07/17/14 | 16:05:00 | 2:00:00 | 0.5600 | 0.0600 |
| 07/17/14 | 17:05:00 | 3:00:00 | 0.5610 | 0.0610 |
| 07/18/14 | 7:25:00 | 17:20:00 | 0.5650 | 0.0650 |
| 07/18/14 | 9:05:00 | 19:00:00 | 0.5650 | 0.0650 |
| 07/18/14 | 10:05:00 | 20:00:00 | 0.5650 | 0.0650 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

*Remark :*

1. *Screen sample through* **No. 4** *Sieve*
2. *Sample should be compacted into a metal ring of the Degree of Saturation of* **50 +/- 2% ( 48 - 52 ).**
3. *Inundated sample in distilled water to 24 h, or until the rate of expansion > (0.0002 in./h), no less than 3 h.*

| | | | |
|---|---|---|---|
| **Volume of Mold** ($ft^3$) | 0.00731 | **Specific Gravity** | 2.70 |
| **Rammer Weight** (lb.) | 5.0 | **Blows/Layer** | 15 |
| **Vertical Confining Pressure** | | 1.0 ($lbf/in^2$) / 6.9 (kPa) | |

$$(\%)\ S = \frac{S.G. \times W \times Dd}{Wd \times S.G. - Dd}$$

**S.G.**=Specific Gravity, **W**=Water Content
**Dd**=Dry Soil Density, **Wd**=Unit Wt. of Water

$$E.I._{(meas)} = \frac{\text{Change in High}}{\text{Initial Thickness}} \times 1000 = 65.00$$

$$\text{xpansion Index}_{(50)} = EI_{(meas.)} - (50 - S_{(meas.)}) \times \frac{\ }{(meas.)}$$

| | |
|---|---|
| **65** | **Medium** |

| **Expansion Index** | **Potential Expansion** |
|---|---|
| **0 - 20** | ***Very Low*** |
| **21 - 50** | ***Low*** |
| **51 - 90** | ***Medium*** |
| **91 - 130** | ***High*** |
| **> 130** | ***Very High*** |

# EXPANSION INDEX OF SOIL

ASTM D-4829-10 / UBC 29-2

| | | | | | |
|---|---|---|---|---|---|
| **Project Name** | : San Pedro HS | | | | |
| **Project No.** | : LA1204 | **Sampled By :** | S.Stone | **Date :** | 07/02/14 |
| **Boring No.** | : B-1 | **Prepared By :** | Eric Y. | **Date :** | 07/16/14 |
| **Sample No.** | : B-1 | **Test By :** | Eric Y. | **Date :** | 07/17/14 |
| **Depth** (ft/m) | : 0-5 ## | **Calculated By :** | Eric Y. | **Date :** | 07/18/14 |
| **Location** | : | **Checked By :** | | **Date :** | |
| **Description** | : Black Clay with Traces of Sand, Gravel and Crush Bricks | | | | |

## Sample Preparation

| | | | | | |
|---|---|---|---|---|---|
| **Weight of Total Soil** | 3679.50 | **Weight of Soil Retained on No. 4 Sieve** | 143.50 | **% Passing No. 4 Sieve** | 96.10 |

| Trail | Field | 2 | 3 | 4 | Tested | M & D After Test | |
|---|---|---|---|---|---|---|---|
| Container No. | R-17 | P2 | | | | Container No. | |
| Weight of Wet Soil + Container (gm) | 587.20 | 1282.20 | | | | Wet Soil+Cont.+Ring | |
| Weight of Dry Soil + Container (gm) | 527.30 | 1236.80 | | | | Dry Soil+Cont.+Ring | |
| Weight of Container (gm) | 149.40 | 902.40 | | | | Wt. of Container | |
| Moisture Content (%) | 15.85 | 13.58 | | | 13.58 | Moisture Content | |
| Weight of Wet Soil + Ring (gm) | | 566.02 | | | | | |
| Weight of Ring (gm) No. 1.0 | | 202.52 | | | 202.52 | | |
| Weight of Wet Soil (gm) | | 363.50 | | | | | |
| Wet Density of Soil (pcf) | | 109.65 | | | | Wet Density (pcf) | |
| Dry Density of Soil (pcf) | | 96.54 | | | | Dry Density (pcf) | |
| Precent Saturation of Soil $S_{(Meas.)}$ | | 49.14 | | | 49.14 | (%) Saturation | |

| Loading Machine No. | 1 | | | |
|---|---|---|---|---|
| **Date** | **Reading Time** | **Elapsed Time** | **Dial Reading** | **Expansion** |
| 07/17/14 | 14:27:00 | 0:10:00 | | 0.0000 |
| 07/17/14 | | | | |
| 07/17/14 | 14:37:00 | **0:00:00** | **0.5000** | **0.0000** |
| **Add Distilled Water to Sample** | | | | |
| 07/17/14 | 15:37:00 | 1:00:00 | 0.5940 | 0.0940 |
| 07/17/14 | 16:37:00 | 2:00:00 | 0.5970 | 0.0970 |
| 07/18/14 | 7:25:00 | 16:48:00 | 0.6020 | 0.1020 |
| 07/18/14 | 8:37:00 | 18:00:00 | 0.6020 | 0.1020 |
| 07/18/14 | 9:37:00 | 19:00:00 | 0.6020 | 0.1020 |
| 07/18/14 | 10:37:00 | 20:00:00 | 0.6020 | 0.1020 |

*Remark :*

1. *Screen sample through* **No. 4** *Sieve*
2. *Sample should be compacted into a metal ring of the Degree of Saturation of* **50 +/- 2% ( 48 - 52 ).**
3. *Inundated sample in distilled water to 24 h, or until the rate of expansion > (0.0002 in./h), no less than 3 h.*

| | | | |
|---|---|---|---|
| **Volume of Mold** ($ft^3$) | 0.00731 | **Specific Gravity** | 2.70 |
| **Rammer Weight** (lb.) | 5.0 | **Blows/Layer** | 15 |
| **Vertical Confining Pressure** | | 1.0 (lbf/in$^2$) / 6.9 (kPa) | |

$$(\%)\ S = \frac{S.G. \times W \times Dd}{Wd \times S.G. - Dd}$$

**S.G.**=Specific Gravity, **W**=Water Content
**Dd**=Dry Soil Density, **Wd**=Unit Wt. of Water

$$E.I._{(meas)} = \frac{\text{Change in High}}{\text{Initial Thickness}} \times 1000 = 102.00$$

$$\text{xpansion Index}_{(50)} = EI_{(meas.)} - (50 - S_{(meas.)}) \times \frac{\quad}{\quad}$$

(meas.) (meas.)

| | |
|---|---|
| **102** | **High** |

| Expansion Index | Potential Expansion |
|---|---|
| 0 - 20 | *Very Low* |
| 21 - 50 | *Low* |
| 51 - 90 | *Medium* |
| 91 - 130 | *High* |
| > 130 | *Very High* |

# EXPANSION INDEX OF SOIL



**ASTM D-4829-10 / UBC 29-2**

| | | | | | |
|---|---|---|---|---|---|
| **Project Name** | : San Pedro High School | | | | |
| **Project No.** | : LA1244 | **Sampled By :** | | **Date :** | |
| **Boring No.** | : B-3 | **Prepared By :** | Eric Y. | **Date :** | 06/26/15 |
| **Sample No.** | : B-1 SO3229 | **Test By :** | Eric Y. | **Date :** | 06/29/15 |
| **Depth (ft/m)** | : 0 - 5' ### | **Calculated By :** | Eric Y. | **Date :** | 06/30/15 |
| **Location** | : | **Checked By :** | Dave R. | **Date :** | |
| **Description** | : Very Dark Grayish Brown Sandy Silty Clay with Shale, Siltstone/Claystone, Gravel, and Aphalt. | | | | |

## Sample Preparation

| | | | | | |
|---|---|---|---|---|---|
| **Weight of Total Soil** | 3302.50 | **Weight of Soil Retained on No. 4 Sieve** | 400.00 | **% Passing No. 4 Sieve** | 87.89 |

| Trail | Field | 2 | 3 | 4 | Tested | M & D After Test | |
|---|---|---|---|---|---|---|---|
| Container No. | SP-2 | | | | | Container No. | |
| Weight of Wet Soil + Container (gm) | 482.50 | | | | | Wet Soil+Cont.+Ring | |
| Weight of Dry Soil + Container (gm) | 438.20 | | | | | Dry Soil+Cont.+Ring | |
| Weight of Container (gm) | 180.50 | | | | | Wt. of Container | |
| Moisture Content (%) | 17.19 | | | | 17.19 | Moisture Content | |
| Weight of Wet Soil + Ring (gm) | 546.96 | | | | | | |
| Weight of Ring (gm) No. 1.0 | 202.48 | | | | 202.48 | | |
| Weight of Wet Soil (gm) | 344.48 | | | | | | |
| Wet Density of Soil (pcf) | 103.91 | | | | | Wet Density (pcf) | |
| Dry Density of Soil (pcf) | 88.67 | | | | | Dry Density (pcf) | |
| Precent Saturation of Soil $S_{(Meas.)}$ | 51.51 | | | | 51.51 | (%) Saturation | |

| Loading Machine No. | 1 | | | |
|---|---|---|---|---|
| **Date** | **Reading Time** | **Elapsed Time** | **Dial Reading** | **Expansion** |
| 06/29/15 | 15:00:00 | 0:10:00 | | 0.0000 |
| 06/29/15 | | | | |
| 06/29/15 | 15:10:00 | **0:00:00** | **0.5000** | **0.0000** |
| **Add Distilled Water to Sample** | | | | |
| 06/29/15 | 16:10:00 | 1:00:00 | 0.5480 | 0.0480 |
| 06/29/15 | 17:10:00 | 2:00:00 | 0.5500 | 0.0500 |
| 06/29/15 | 18:10:00 | 3:00:00 | 0.5510 | 0.0510 |
| 06/30/15 | 7:35:00 | 16:25:00 | 0.5530 | 0.0530 |
| 06/30/15 | 8:35:00 | 17:25:00 | 0.5530 | 0.0530 |
| 06/30/15 | 9:35:00 | 18:25:00 | 0.5530 | 0.0530 |

*Remark :*

1. *Screen sample through* **No. 4** *Sieve*
2. *Sample should be compacted into a metal ring of the Degree of Saturation of* **50 +/- 2% ( 48 - 52 ).**
3. *Inundated sample in distilled water to 24 h, or until the rate of expansion > (0.0002 in./h), no less than 3 h.*

| | | | |
|---|---|---|---|
| **Volume of Mold ($ft^3$)** | 0.00731 | **Specific Gravity** | 2.70 |
| **Rammer Weight (lb.)** | 5.0 | **Blows/Layer** | 15 |
| **Vertical Confining Pressure** | | 1.0 ($lbf/in^2$) / 6.9 (kPa) | |

$$(\%)\ S = \frac{S.G. \times W \times Dd}{Wd \times S.G. - Dd}$$

**S.G.**=Specific Gravity, **W**=Water Content
**Dd**=Dry Soil Density, **Wd**=Unit Wt. of Water

$$E.I._{(meas)} = \frac{\text{Change in High}}{\text{Initial Thickness}} \times 1000 = 53.00$$

$$\text{Expansion Index}_{(50)} = EI_{(meas.)} - (50 - S_{(meas.)}) \times \frac{65 + EI_{(meas.)}}{220 - S_{(meas.)}}$$

| | |
|---|---|
| **54** | **Medium** |

| Expansion Index | Potential Expansion |
|---|---|
| 0 - 20 | *Very Low* |
| 21 - 50 | *Low* |
| 51 - 90 | *Medium* |
| 91 - 130 | *High* |
| > 130 | *Very High* |

# EXPANSION INDEX OF SOIL



**ASTM D-4829-10 / UBC 29-2**

| | | | | | |
|---|---|---|---|---|---|
| **Project Name** | : San Pedro High School | | | | |
| **Project No.** | : LA1244 | **Sampled By :** | | **Date :** | |
| **Boring No.** | : B-1 | **Prepared By :** | Eric Y. | **Date :** | 06/26/15 |
| **Sample No.** | : B-1 SO3229 | **Test By :** | Eric Y. | **Date :** | 06/29/15 |
| **Depth** (ft/m) | : 0 - 5' ## | **Calculated By :** | Eric Y. | **Date :** | 06/30/15 |
| **Location** | : | **Checked By :** | Dave R. | **Date :** | |
| **Description** | : Light Yellowish Brown Sandy Silty Clay with Shale, Siltstone/Claystone,Gravel,Asphalt, and Deatomaceous Earth. | | | | |

## Sample Preparation

| | | | | | |
|---|---|---|---|---|---|
| **Weight of Total Soil** | 3160.00 | **Weight of Soil Retained on No. 4 Sieve** | 326.50 | **% Passing No. 4 Sieve** | 89.67 |

| **Trail** | **Field** | **2** | **3** | **4** | **Tested** | **M & D After Test** | |
|---|---|---|---|---|---|---|---|
| **Container No.** | SP-1 | P3 | | | | **Container No.** | |
| **Weight of Wet Soil + Container (gm)** | 494.50 | 1014.20 | | | | **Wet Soil+Cont.+Ring** | |
| **Weight of Dry Soil + Container (gm)** | 407.50 | 968.60 | | | | **Dry Soil+Cont.+Ring** | |
| **Weight of Container (gm)** | 195.60 | 767.60 | | | | **Wt. of Container** | |
| **Moisture Content (%)** | 41.06 | 22.69 | | | 22.69 | **Moisture Content** | |
| **Weight of Wet Soil + Ring (gm)** | | 507.01 | | | | | |
| **Weight of Ring (gm)** No. 2.0 | | 198.77 | | | 198.77 | | |
| **Weight of Wet Soil (gm)** | | 308.24 | | | | | |
| **Wet Density of Soil (pcf)** | | 92.98 | | | | **Wet Density (pcf)** | |
| **Dry Density of Soil (pcf)** | | 75.79 | | | | **Dry Density (pcf)** | |
| **Precent Saturation of Soil** $S_{(Meas.)}$ | | 50.04 | | | 50.04 | **(%) Saturation** | |

| **Loading Machine No.** | | | **2** | |
|---|---|---|---|---|
| **Date** | **Reading Time** | **Elapsed Time** | **Dial Reading** | **Expansion** |
| 06/29/15 | 17:15:00 | 0:10:00 | | 0.0000 |
| 06/29/15 | | | | |
| 06/29/15 | 17:25:00 | **0:00:00** | **0.5000** | **0.0000** |
| **Add Distilled Water to Sample** | | | | |
| 06/29/15 | 18:25:00 | 1:00:00 | 0.5840 | 0.0840 |
| 06/30/15 | 7:35:00 | 14:10:00 | 0.5940 | 0.0940 |
| 06/30/15 | 8:35:00 | 15:10:00 | 0.5940 | 0.0940 |
| 06/30/15 | 9:35:00 | 16:10:00 | 0.5940 | 0.0940 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

*Remark :*

1. *Screen sample through* **No. 4** *Sieve*
2. *Sample should be compacted into a metal ring of the Degree of Saturation of* **50 +/- 2% ( 48 - 52 ).**
3. *Inundated sample in distilled water to 24 h, or until the rate of expansion > (0.0002 in./h), no less than 3 h.*

| | | | |
|---|---|---|---|
| **Volume of Mold** ($ft^3$) | 0.00731 | **Specific Gravity** | 2.70 |
| **Rammer Weight** (lb.) | 5.0 | **Blows/Layer** | 15 |
| **Vertical Confining Pressure** | | 1.0 ($lbf/in^2$) / 6.9 (kPa) | |

$$(\%)\ S = \frac{S.G. \times W \times Dd}{Wd \times S.G. - Dd}$$

**S.G.**=Specific Gravity, **W**=Water Content
**Dd**=Dry Soil Density, **Wd**=Unit Wt. of Water

$$E.I._{(meas)} = \frac{\text{Change in High}}{\text{Initial Thickness}} \times 1000 = \mathbf{94.00}$$

$$\text{Expansion Index}_{(50)} = EI_{(meas.)} - (50 - S_{(meas.)}) \times \frac{65 + EI_{(meas.)}}{220 - S_{(meas.)}}$$

| | |
|---|---|
| **94** | **High** |

| **Expansion Index** | **Potential Expansion** |
|---|---|
| **0 - 20** | *Very Low* |
| **21 - 50** | *Low* |
| **51 - 90** | *Medium* |
| **91 - 130** | *High* |
| **> 130** | *Very High* |

| SAMPLE NO.: | B-3 @ 0 - 5' | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DESCRIPTION | Silty Clay | | | | | | | | | | | | | | | | | |
| DIRECT SHEAR TEST (type) | | | | | | | | | | | | | | | | | | |
| Initial Moisture Content % | | | | | | | | | | | | | | | | | | |
| Dry Density (pcf) | | | | | | | | | | | | | | | | | | |
| Normal Stress (psf) | | | | | | | | | | | | | | | | | | |
| Peak Shear Stress (psf) | | | | | | | | | | | | | | | | | | |
| Ultimate Shear Stress (psf) | | | | | | | | | | | | | | | | | | |
| Cohesion (psf) | | | | | | | | | | | | | | | | | | |
| Internal Friction Angle (degrees) | | | | | | | | | | | | | | | | | | |
| EXPANSION TEST UBC STD 18-2 | | | | | | | | | | | | | | | | | | |
| Initial Dry Density (pcf) | | | | | | | | | | | | | | | | | | |
| Initial Moisture Content % | | | | | | | | | | | | | | | | | | |
| Final Moisture Content % | | | | | | | | | | | | | | | | | | |
| Pressure (psf) | | | | | | | | | | | | | | | | | | |
| Expansion Index / Swell % | | | | | | | | | | | | | | | | | | |
| CORROSIVITY TEST | | | | | | | | | | | | | | | | | | |
| Resistivity (CTM643) (ohm-cm) | 500 | | | | | | | | | | | | | | | | | |
| pH (CTM643) | 7.7 | | | | | | | | | | | | | | | | | |
| CHEMICAL TESTS | | | | | | | | | | | | | | | | | | |
| Soluble Sulfate (CTM 417) (ppm) | 1214 | | | | | | | | | | | | | | | | | |
| Chloride Content (CTM 422) (ppm) | 377 | | | | | | | | | | | | | | | | | |
| Wash #200 Sieve (ASTM-1140) % | | | | | | | | | | | | | | | | | | |
| Sand Equivalent (ASTM D2419) | | | | | | | | | | | | | | | | | | |

**BORING NO.:** B2/B1 **SAMPLE DATE:** 11/27/13

**BORING DEPTH:** 0-5' **TEST DATE:** 12/5/13

**SAMPLE DESCRIPTION:** Dark yellowish brown lean clay (CL)

# LABORATORY TEST DATA

| | TEST SPECIMEN | 1 | 2 | 3 | 4 | 5 | |
|---|---|---|---|---|---|---|---|
| A | COMPACTOR PRESSURE | 50 | | | | | [PSI] |
| B | INITIAL MOISTURE | 6.4 | | | | | [%] |
| C | BATCH SOIL WEIGHT | 1200 | | | | | [G] |
| D | WATER ADDED | 185 | | | | | [ML] |
| E | WATER ADDED (D*(100+B)/C) | 16.4 | | | | | [%] |
| F | COMPACTION MOISTURE (B+E) | 22.8 | | | | | [%] |
| G | MOLD WEIGHT | 2098.6 | | | | | [G] |
| H | TOTAL BRIQUETTE WEIGHT | 3104.4 | | | | | [G] |
| I | NET BRIQUETTE WEIGHT (H-G) | 1005.8 | | | | | [G] |
| J | BRIQUETTE HEIGHT | 2.53 | | | | | [IN] |
| K | DRY DENSITY (30.3*I/((100+F)*J)) | | | | | | [PCF] |
| L | EXUDATION LOAD | | | | | | [LB] |
| M | EXUDATION PRESSURE (L/12.54) | | | | | | [PSI] |
| N | STABILOMETER AT 1000 LBS | | | | | | [PSI] |
| O | STABILOMETER AT 2000 LBS | | | | | | [PSI] |
| P | DISPLACEMENT FOR 100 PSI | | | | | | [Turns] |
| Q | R VALUE BY STABILOMETER | | | | | | |
| R | CORRECTED R-VALUE (See Fig. 14) | | | | | | |
| S | EXPANSION DIAL READING | | | | | | [IN] |
| T | EXPANSION PRESSURE (S*43,300) | | | | | | [PSF] |
| U | COVER BY STABILOMETER | | | | | | [FT] |
| V | COVER BY EXPANSION | | | | | | [FT] |

| | |
|---|---|
| TRAFFIC INDEX: | 5.0 |
| GRAVEL FACTOR: | 1.58 |
| UNIT WEIGHT OF COVER [PCF]: | 130 |
| R-VALUE BY EXUDATION: | |
| R-VALUE BY EXPANSION: | |
| R-VALUE AT EQUILIBRIUM: | |

Per CTM301, sample exuded from mold before 5 lights were lit.

R-Value= Less than 5

*Note: Gravel factor estimated from pavement section using CTM 301, Section C, Part b.

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**R-VALUE TEST RESULTS**

Document No.
Project No. LA1172
**FIGURE 1.1**

# COMPACTION TEST

**( ASTM D-1557-09 )**

**Project Name :** San Pedro High School Pavement Design and Infiltration Assessment

| | | | | | |
|---|---|---|---|---|---|
| **Project No.** | : LA1172 | **Sampleing By :** | S.G. | **Date :** | 11/27/13 |
| **Boring No.** | : B-3 | **Prepared By :** | Benito P. | **Date :** | 12/04/13 |
| **Sample No.** | : B1 | **Test By :** | Benito P. | **Date :** | 12/04/13 |
| **Depth ( ft/m ) :** | 0.0 | **Calculated By :** | Benito P. | **Date :** | 12/04/13 |
| **Location** | : | **Checked By :** | | **Date :** | |
| **Description** | : Very Dark Gray Sandy Clay with Few Gravel, Crush Sandstone / Siltstone | | | | 1 |

| **Estimated Moisture Content (%)** | | | | | |
|---|---|---|---|---|---|
| **Container Number** | P3 | P3 | P3 | P3 | |
| **Wt. of Wet Soil + Container (gm)** | 1506.50 | 1357.20 | 1420.10 | 1417.60 | |
| **Wt. of Dry Soil + Container (gm)** | 1427.80 | 1304.00 | 1341.20 | 1368.90 | |
| **Weight of Container (gm)** | 797.60 | 797.60 | 797.60 | 797.60 | |
| **Moisture Content (%)** | 12.49 | 10.51 | 14.51 | 8.52 | |
| **Weight of Wet Soil + Mold (gm)** | 4015.60 | 3962.10 | 3983.40 | 3833.50 | |
| **Weight of Mold (gm)** | 1969.80 | 1969.80 | 1969.80 | 1969.80 | 1969.80 |
| **Wet Density (pcf)** | 135.44 | 131.90 | 133.31 | 123.38 | |
| **Dry Density (pcf)** | 120.40 | 119.36 | 116.41 | 113.69 | |
| **Corrected Wet Density (pcf)** | | | | | |
| **Corrected Dry Density (pcf)** | | | | | |

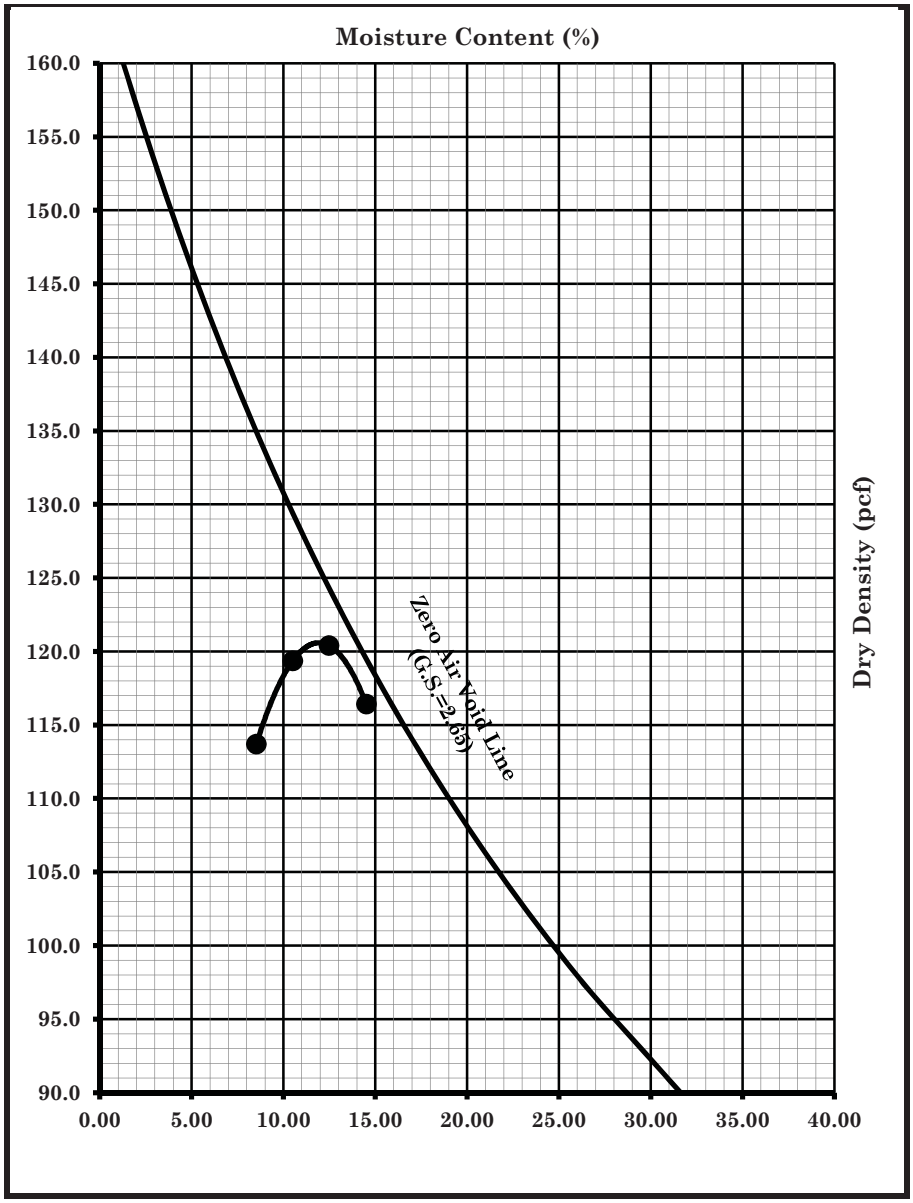
| **Hammer** | | **Rammer Used** | **Manual** |
|---|---|---|---|
| **Weight** | **Drop** | | **Mechanical** |
| **10 lb.** | **18"** | **Specific Gravity** | **Fine** 2.70 / **Coarse** |

**Total Wet Soil Wt. (gm) :** 18722.00

| **Sieve** | **Weight Sample Retained** | **% of** | **% of Passing** |
|---|---|---|---|
| **3/4"** | 353.70 | 2.13 | 97.87 |
| **3/8"** | 762.50 | 4.58 | 95.42 |
| **No. 4** | 1301.10 | 7.82 | 92.18 |

**Wt. in Air of +3/4" (gm)**

**Wt. in Water of +3/4" (gm)**




| **Mold Volume ($ft^3$)** | 0.0333 |
|---|---|

## Test Method

**A** — **4" Mold** — **5 Layer, 25 Blow / Layer**

[X] **Material Passing No. 4 Sieve**
**If < 25% Material + No. 4 Sieve**
**Mold Volume ($ft^3$) =** 0.0333

**B** — **4" Mold** — **5 Layer, 25 Blow / Layer**

[ ] **Material Passing 3/8" Sieve**
**If > 25% Material + No. 4 Sieve**
**< 25% Material + 3/8" Sieve**
**Mold Volume ($ft^3$) =** 0.0333

**C** — **6" Mold** — **5 Layer, 56 Blow / Layer**

[ ] **Material Passing 3/4" Sieve**
**If > 25% Material + 3/8" Sieve**
**< 30% Material + 3/4" Sieve**
**Mold Volume ($ft^3$) =** 0.07502

**Other** — **6" Mold** — **5 Layer, 56 Blow / Layer**

[ ] **If test Specimen > 5% by weight of Oversize (Coarse Fraction) and material will not be included in the tests. (>40%+No.4, >30%+3/4" Sieve)**

**Correction must be made to the unit weight and water content of test specimen**

| **Maximun Density** | | | | **Optimum Moisture (%)** |
|---|---|---|---|---|
| **Dry** | | **Wet** | | |
| **(pcf)** | **($kN/m^3$)** | **(pcf)** | **($kN/m^3$)** | |
| 120.5 | 19.0 | 135.0 | 21.2 | 12.0 |

# APPENDIX D
# ASCE 7-10 AND ASCE 41 CODE SEISMIC PARAMETERS

# USGS Design Maps Detailed Report

## ASCE 7-10 Standard (33.72962°N, 118.30025°W)

Site Class D – “Stiff Soil”, Risk Category I/II/III

### Section 11.4.1 — Mapped Acceleration Parameters

Note: Ground motion values provided below are for the direction of maximum horizontal spectral response acceleration. They have been converted from corresponding geometric mean ground motions computed by the USGS by applying factors of 1.1 (to obtain $S_S$) and 1.3 (to obtain $S_1$). Maps in the 2010 ASCE-7 Standard are provided for Site Class B. Adjustments for other Site Classes are made, as needed, in Section 11.4.3.

| | |
|---|---|
| **From Figure 22-1** [1] | $S_S$ = 1.559 g |
| **From Figure 22-2** [2] | $S_1$ = 0.598 g |

### Section 11.4.2 — Site Class

The authority having jurisdiction (not the USGS), site-specific geotechnical data, and/or the default has classified the site as Site Class D, based on the site soil properties in accordance with Chapter 20.

Table 20.3–1 Site Classification

| Site Class | $\overline{v}_s$ | $\overline{N}$ or $\overline{N}_{ch}$ | $\overline{s}_u$ |
|---|---|---|---|
| A. Hard Rock | >5,000 ft/s | N/A | N/A |
| B. Rock | 2,500 to 5,000 ft/s | N/A | N/A |
| C. Very dense soil and soft rock | 1,200 to 2,500 ft/s | >50 | >2,000 psf |
| D. Stiff Soil | 600 to 1,200 ft/s | 15 to 50 | 1,000 to 2,000 psf |
| E. Soft clay soil | <600 ft/s | <15 | <1,000 psf |
| | Any profile with more than 10 ft of soil having the characteristics:<br>• Plasticity index *PI* > 20,<br>• Moisture content *w* ≥ 40%, and<br>• Undrained shear strength $\overline{s}_u$ < 500 psf | | |
| F. Soils requiring site response analysis in accordance with Section 21.1 | See Section 20.3.1 | | |

For SI: 1ft/s = 0.3048 m/s 1lb/ft² = 0.0479 kN/m²

## Section 11.4.3 — Site Coefficients and Risk–Targeted Maximum Considered Earthquake ($MCE_R$) Spectral Response Acceleration Parameters

Table 11.4–1: Site Coefficient $F_a$

| Site Class | Mapped $MCE_R$ Spectral Response Acceleration Parameter at Short Period | | | | |
|---|---|---|---|---|---|
| | $S_S \leq 0.25$ | $S_S = 0.50$ | $S_S = 0.75$ | $S_S = 1.00$ | $S_S \geq 1.25$ |
| A | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| B | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| C | 1.2 | 1.2 | 1.1 | 1.0 | 1.0 |
| D | 1.6 | 1.4 | 1.2 | 1.1 | 1.0 |
| E | 2.5 | 1.7 | 1.2 | 0.9 | 0.9 |
| F | See Section 11.4.7 of ASCE 7 | | | | |

Note: Use straight–line interpolation for intermediate values of $S_S$

**For Site Class = D and $S_S$ = 1.559 g, $F_a$ = 1.000**

Table 11.4–2: Site Coefficient $F_v$

| Site Class | Mapped $MCE_R$ Spectral Response Acceleration Parameter at 1–s Period | | | | |
|---|---|---|---|---|---|
| | $S_1 \leq 0.10$ | $S_1 = 0.20$ | $S_1 = 0.30$ | $S_1 = 0.40$ | $S_1 \geq 0.50$ |
| A | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| B | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| C | 1.7 | 1.6 | 1.5 | 1.4 | 1.3 |
| D | 2.4 | 2.0 | 1.8 | 1.6 | 1.5 |
| E | 3.5 | 3.2 | 2.8 | 2.4 | 2.4 |
| F | See Section 11.4.7 of ASCE 7 | | | | |

Note: Use straight–line interpolation for intermediate values of $S_1$

**For Site Class = D and $S_1$ = 0.598 g, $F_v$ = 1.500**

**Equation (11.4–1):** $S_{MS} = F_a S_S = 1.000 \times 1.559 = 1.559$ g

**Equation (11.4–2):** $S_{M1} = F_v S_1 = 1.500 \times 0.598 = 0.897$ g

## Section 11.4.4 — Design Spectral Acceleration Parameters

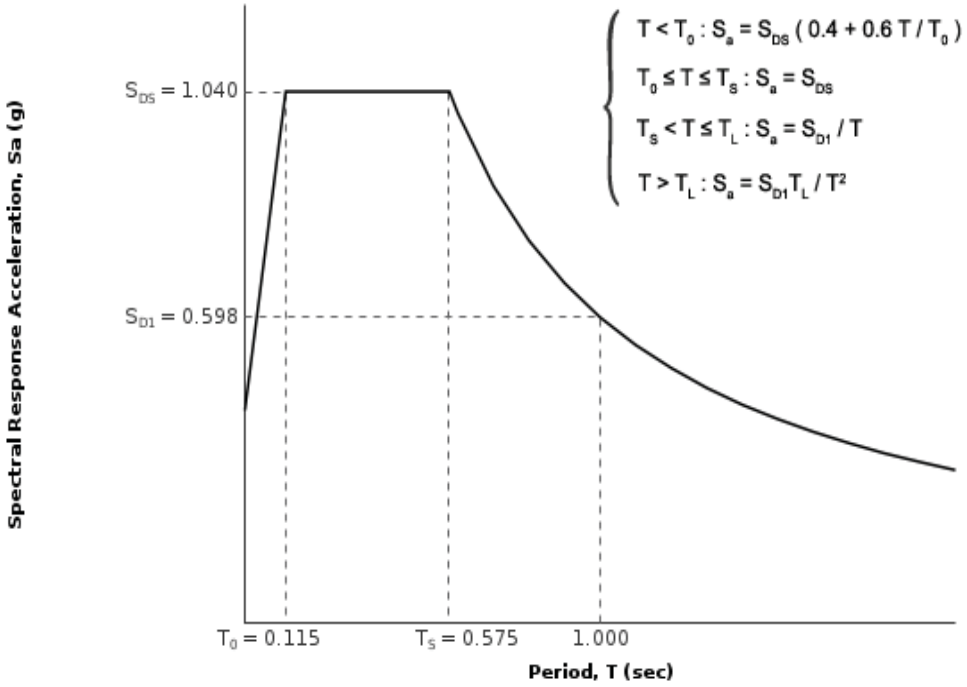
**Equation (11.4–3):** $S_{DS} = \frac{2}{3} S_{MS} = \frac{2}{3} \times 1.559 = 1.040$ g

**Equation (11.4–4):** $S_{D1} = \frac{2}{3} S_{M1} = \frac{2}{3} \times 0.897 = 0.598$ g

## Section 11.4.5 — Design Response Spectrum

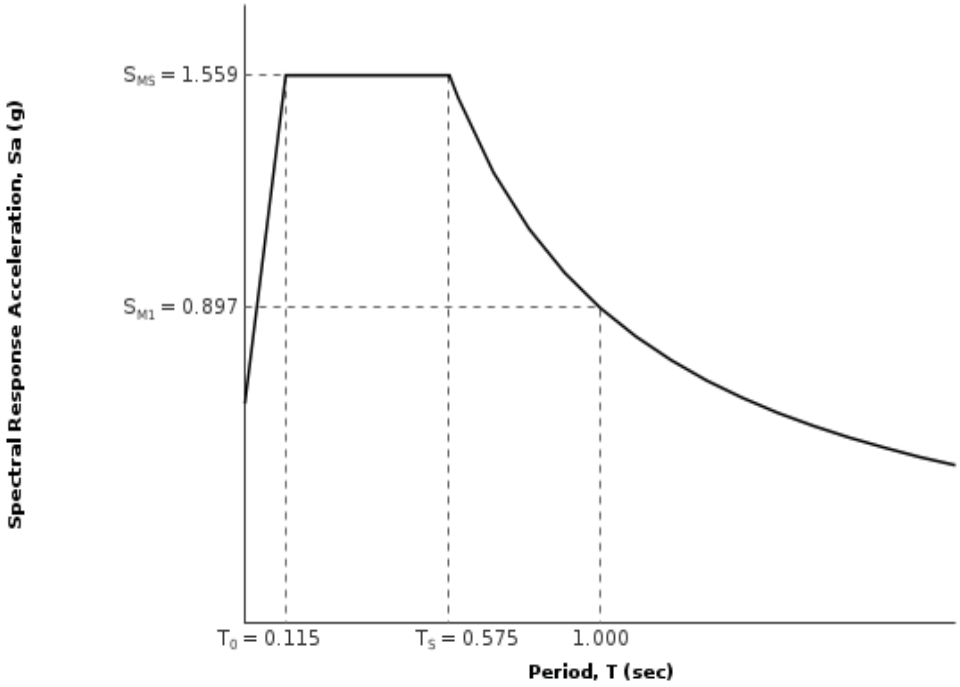
**From Figure 22-12** [3] $T_L = 8$ seconds

Figure 11.4–1: Design Response Spectrum



## Section 11.4.6 — Risk-Targeted Maximum Considered Earthquake ($MCE_R$) Response Spectrum

The $MCE_R$ Response Spectrum is determined by multiplying the design response spectrum above by 1.5.



## Section 11.8.3 — Additional Geotechnical Investigation Report Requirements for Seismic Design Categories D through F

**From Figure 22-7** [4] PGA = 0.633

**Equation (11.8–1):** $PGA_M = F_{PGA}PGA = 1.000 \times 0.633 = 0.633$ g

Table 11.8–1: Site Coefficient $F_{PGA}$

| Site Class | Mapped MCE Geometric Mean Peak Ground Acceleration, PGA | | | | |
|---|---|---|---|---|---|
| | PGA ≤ 0.10 | PGA = 0.20 | PGA = 0.30 | PGA = 0.40 | PGA ≥ 0.50 |
| A | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| B | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| C | 1.2 | 1.2 | 1.1 | 1.0 | 1.0 |
| D | 1.6 | 1.4 | 1.2 | 1.1 | 1.0 |
| E | 2.5 | 1.7 | 1.2 | 0.9 | 0.9 |
| F | See Section 11.4.7 of ASCE 7 | | | | |

Note: Use straight–line interpolation for intermediate values of PGA

**For Site Class = D and PGA = 0.633 g, $F_{PGA}$ = 1.000**

## Section 21.2.1.1 — Method 1 (from Chapter 21 – Site-Specific Ground Motion Procedures for Seismic Design)

**From Figure 22-17** [5] $C_{RS}$ = 0.916

**From Figure 22-18** [6] $C_{R1}$ = 0.926

## Section 11.6 — Seismic Design Category

Table 11.6-1 Seismic Design Category Based on Short Period Response Acceleration Parameter

| VALUE OF $S_{DS}$ | RISK CATEGORY | | |
|---|---|---|---|
| | I or II | III | IV |
| $S_{DS} < 0.167g$ | A | A | A |
| $0.167g \leq S_{DS} < 0.33g$ | B | B | C |
| $0.33g \leq S_{DS} < 0.50g$ | C | C | D |
| $0.50g \leq S_{DS}$ | D | D | D |

**For Risk Category = I and $S_{DS}$ = 1.040 g, Seismic Design Category = D**

Table 11.6-2 Seismic Design Category Based on 1-S Period Response Acceleration Parameter

| VALUE OF $S_{D1}$ | RISK CATEGORY | | |
|---|---|---|---|
| | I or II | III | IV |
| $S_{D1} < 0.067g$ | A | A | A |
| $0.067g \leq S_{D1} < 0.133g$ | B | B | C |
| $0.133g \leq S_{D1} < 0.20g$ | C | C | D |
| $0.20g \leq S_{D1}$ | D | D | D |

**For Risk Category = I and $S_{D1}$ = 0.598 g, Seismic Design Category = D**

Note: When $S_1$ is greater than or equal to 0.75g, the Seismic Design Category is **E** for buildings in Risk Categories I, II, and III, and **F** for those in Risk Category IV, irrespective of the above.

Seismic Design Category ≡ “the more severe design category in accordance with Table 11.6-1 or 11.6-2” = D

---

Note: See Section 11.6 for alternative approaches to calculating Seismic Design Category.

## References


1. *Figure 22-1*: http://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-1.pdf
2. *Figure 22-2*: http://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-2.pdf
3. *Figure 22-12*: http://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-12.pdf
4. *Figure 22-7*: http://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-7.pdf
5. *Figure 22-17*: http://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-17.pdf
6. *Figure 22-18*: http://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-18.pdf

# USGS Design Maps Detailed Report

## ASCE 41-13 Retrofit Standard, BSE-1E (33.72962°N, 118.30025°W)

Site Class D – "Stiff Soil", Risk Category I/II/III

### Section 2.4.1 – General Procedure for Hazard Due to Ground Shaking

20%/50-year maximum direction spectral response acceleration for 0.2s and 1.0s periods, respectively:

| | |
|---|---|
| **From Section 2.4.1.4** | $S_{S,20/50}$ = 0.508 g |
| **From Section 2.4.1.4** | $S_{1,20/50}$ = 0.195 g |

### Section 2.4.1.6 – Adjustment for Site Class

The authority having jurisdiction (not the USGS), site-specific geotechnical data, and/or the default has classified the site as Site Class D, based on the site soil properties in accordance with Section 2.4.1.6.1.

| SITE CLASS | SOIL PROFILE NAME | Soil shear wave velocity, $\overline{v}_s$, (ft/s) | Standard penetration resistance, $\overline{N}$ | Soil undrained shear strength, $\overline{s}_u$, (psf) |
|---|---|---|---|---|
| A | Hard rock | $\overline{v}_s$ > 5,000 | N/A | N/A |
| B | Rock | 2,500 < $\overline{v}_s$ ≤ 5,000 | N/A | N/A |
| C | Very dense soil and soft rock | 1,200 < $\overline{v}_s$ ≤ 2,500 | $\overline{N}$ > 50 | >2,000 psf |
| D | Stiff soil profile | 600 ≤ $\overline{v}_s$ < 1,200 | 15 ≤ $\overline{N}$ ≤ 50 | 1,000 to 2,000 psf |
| E | Stiff soil profile | $\overline{v}_s$ < 600 | $\overline{N}$ < 15 | <1,000 psf |
| E | — | Any profile with more than 10 ft of soil having the characteristics:<br>1. Plasticity index *PI* > 20,<br>2. Moisture content *w* ≥ 40%, and<br>3. Undrained shear strength $\overline{s}_u$ < 500 psf | | |
| F | — | Any profile containing soils having one or more of the following characteristics:<br>1. Soils vulnerable to potential failure or collapse under seismic loading such as liquefiable soils, quick and highly sensitive clays, collapsible weakly cemented soils.<br>2. Peats and/or highly organic clays (*H* > 10 feet of peat and/or highly organic clay where *H* = thickness of soil)<br>3. Very high plasticity clays (*H* > 25 feet with plasticity index *PI* > 75)<br>4. Very thick soft/medium stiff clays (*H* > 120 feet) | | |

For SI: 1ft/s = 0.3048 m/s 1lb/ft² = 0.0479 kN/m²

Table 2–3. Values of $F_a$ as a Function of Site Class and Mapped Short-Period Spectral Response Acceleration $S_s$

| Site Class | Mapped Spectral Acceleration at Short-Period $S_s$ | | | | |
|---|---|---|---|---|---|
| | $S_S \leq 0.25$ | $S_S = 0.50$ | $S_S = 0.75$ | $S_S = 1.00$ | $S_S \geq 1.25$ |
| A | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| B | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| C | 1.2 | 1.2 | 1.1 | 1.0 | 1.0 |
| D | 1.6 | 1.4 | 1.2 | 1.1 | 1.0 |
| E | 2.5 | 1.7 | 1.2 | 0.9 | 0.9 |
| F | Site-specific geotechnical and dynamic site response analyses shall be performed | | | | |

Note: Use straight–line interpolation for intermediate values of $S_S$

**For Site Class = D and $S_S$ = 0.508 g, $F_a$ = 1.394**

Table 2–4. Values of $F_v$ as a Function of Site Class and Mapped Spectral Response Acceleration at 1 s Period $S_1$

| Site Class | Mapped Spectral Acceleration at 1 s Period $S_1$ | | | | |
|---|---|---|---|---|---|
| | $S_1 \leq 0.10$ | $S_1 = 0.20$ | $S_1 = 0.30$ | $S_1 = 0.40$ | $S_1 \geq 0.50$ |
| A | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| B | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| C | 1.7 | 1.6 | 1.5 | 1.4 | 1.3 |
| D | 2.4 | 2.0 | 1.8 | 1.6 | 1.5 |
| E | 3.5 | 3.2 | 2.8 | 2.4 | 2.4 |
| F | Site-specific geotechnical and dynamic site response analyses shall be performed | | | | |

Note: Use straight–line interpolation for intermediate values of $S_1$

**For Site Class = D and $S_1$ = 0.195 g, $F_v$ = 2.022**

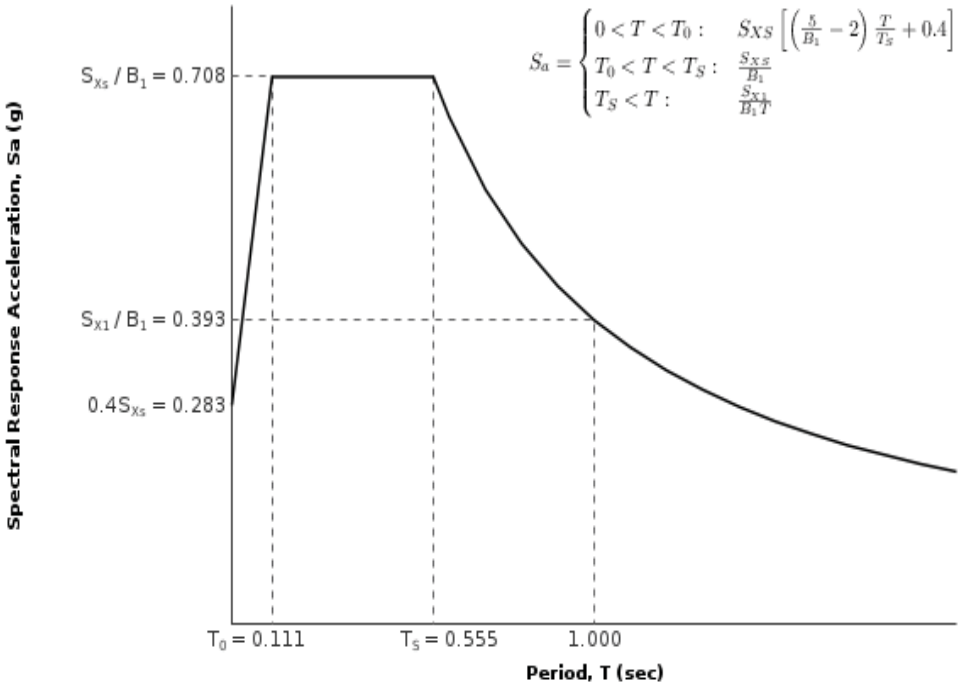
| | |
|---|---|
| **Provided as a reference for Equation (2-4):** | $F_aS_{S,20/50}$ = 1.394 x 0.508 g = 0.708 g |
| **Provided as a reference for Equation (2-5):** | $F_vS_{1,20/50}$ = 2.022 x 0.195 g = 0.393 g |
| **Provided as a reference for Equation (2-4):** | $S_{XS,BSE\text{-}1N}$ = ⅔ x $S_{XS,BSE\text{-}2N}$ = ⅔ x $F_aS_{S,BSE\text{-}2N}$ = 1.040 g |
| **Provided as a reference for Equation (2-5):** | $S_{X1,BSE\text{-}1N}$ = ⅔ x $S_{X1,BSE\text{-}2N}$ = ⅔ x $F_vS_{1,BSE\text{-}2N}$ = 0.598 g |

**Equation (2–4):** $S_{XS,BSE\text{-}1E}$ = MIN[$F_aS_{S,20/50}$, $S_{XS,BSE\text{-}1N}$] = MIN[0.708g, 1.040g] = 0.708g

**Equation (2–5):** $S_{X1,BSE\text{-}1E}$ = MIN[$F_vS_{S,20/50}$, $S_{X1,BSE\text{-}1N}$] = MIN[0.393g, 0.598g] = 0.393g

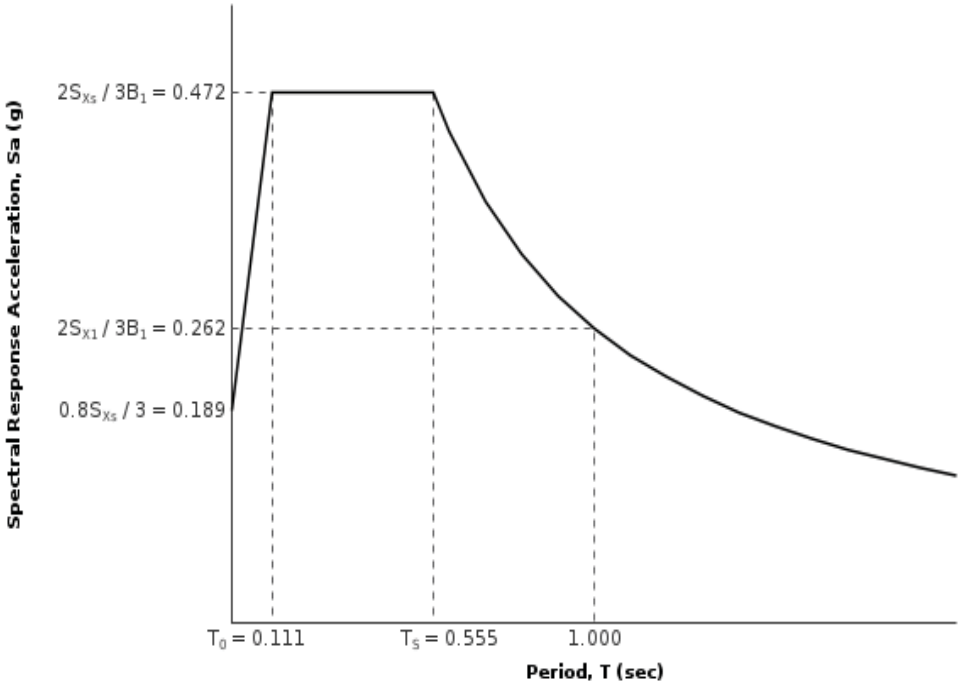
## Section 2.4.1.7.1 — General Horizontal Response Spectrum

Figure 2-1. General Horizontal Response Spectrum



## Section 2.4.1.7.2 — General Vertical Response Spectrum

The General Vertical Response Spectrum is determined by multiplying the General Horizontal Response Spectrum by ⅔.



# USGS Design Maps Detailed Report

## ASCE 41-13 Retrofit Standard, BSE-1N (33.72962°N, 118.30025°W)

Site Class D – "Stiff Soil", Risk Category I/II/III

### Section 2.4.1 – General Procedure for Hazard Due to Ground Shaking

Provided as a reference for Equation (2-4) and Equation (2-5), respectively:

**From Section 2.4.1.1** $S_{S,BSE-2N} = 1.559$ g

**From Section 2.4.1.1** $S_{1,BSE-2N} = 0.598$ g

### Section 2.4.1.6 – Adjustment for Site Class

The authority having jurisdiction (not the USGS), site-specific geotechnical data, and/or the default has classified the site as Site Class D, based on the site soil properties in accordance with Section 2.4.1.6.1.

| SITE CLASS | SOIL PROFILE NAME | Soil shear wave velocity, $\overline{v}_s$, (ft/s) | Standard penetration resistance, $\overline{N}$ | Soil undrained shear strength, $\overline{s}_u$, (psf) |
|---|---|---|---|---|
| A | Hard rock | $\overline{v}_s > 5{,}000$ | N/A | N/A |
| B | Rock | $2{,}500 < \overline{v}_s \leq 5{,}000$ | N/A | N/A |
| C | Very dense soil and soft rock | $1{,}200 < \overline{v}_s \leq 2{,}500$ | $\overline{N} > 50$ | >2,000 psf |
| D | Stiff soil profile | $600 \leq \overline{v}_s < 1{,}200$ | $15 \leq \overline{N} \leq 50$ | 1,000 to 2,000 psf |
| E | Stiff soil profile | $\overline{v}_s < 600$ | $\overline{N} < 15$ | <1,000 psf |
| E | — | Any profile with more than 10 ft of soil having the characteristics:<br>1. Plasticity index $PI > 20$,<br>2. Moisture content $w \geq 40\%$, and<br>3. Undrained shear strength $\overline{s}_u < 500$ psf | | |
| F | — | Any profile containing soils having one or more of the following characteristics:<br>1. Soils vulnerable to potential failure or collapse under seismic loading such as liquefiable soils, quick and highly sensitive clays, collapsible weakly cemented soils.<br>2. Peats and/or highly organic clays ($H > 10$ feet of peat and/or highly organic clay where $H$ = thickness of soil)<br>3. Very high plasticity clays ($H > 25$ feet with plasticity index $PI > 75$)<br>4. Very thick soft/medium stiff clays ($H > 120$ feet) | | |

For SI: 1ft/s = 0.3048 m/s 1lb/ft² = 0.0479 kN/m²

Table 2–3. Values of $F_a$ as a Function of Site Class and Mapped Short-Period Spectral Response Acceleration $S_s$

| Site Class | Mapped Spectral Acceleration at Short-Period $S_s$ | | | | |
|---|---|---|---|---|---|
| | $S_S \leq 0.25$ | $S_S = 0.50$ | $S_S = 0.75$ | $S_S = 1.00$ | $S_S \geq 1.25$ |
| A | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| B | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| C | 1.2 | 1.2 | 1.1 | 1.0 | 1.0 |
| D | 1.6 | 1.4 | 1.2 | 1.1 | 1.0 |
| E | 2.5 | 1.7 | 1.2 | 0.9 | 0.9 |
| F | Site-specific geotechnical and dynamic site response analyses shall be performed | | | | |

Note: Use straight–line interpolation for intermediate values of $S_S$

**For Site Class = D and $S_S$ = 1.559 g, $F_a$ = 1.000**

Table 2–4. Values of $F_v$ as a Function of Site Class and Mapped Spectral Response Acceleration at 1 s Period $S_1$

| Site Class | Mapped Spectral Acceleration at 1 s Period $S_1$ | | | | |
|---|---|---|---|---|---|
| | $S_1 \leq 0.10$ | $S_1 = 0.20$ | $S_1 = 0.30$ | $S_1 = 0.40$ | $S_1 \geq 0.50$ |
| A | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| B | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| C | 1.7 | 1.6 | 1.5 | 1.4 | 1.3 |
| D | 2.4 | 2.0 | 1.8 | 1.6 | 1.5 |
| E | 3.5 | 3.2 | 2.8 | 2.4 | 2.4 |
| F | Site-specific geotechnical and dynamic site response analyses shall be performed | | | | |

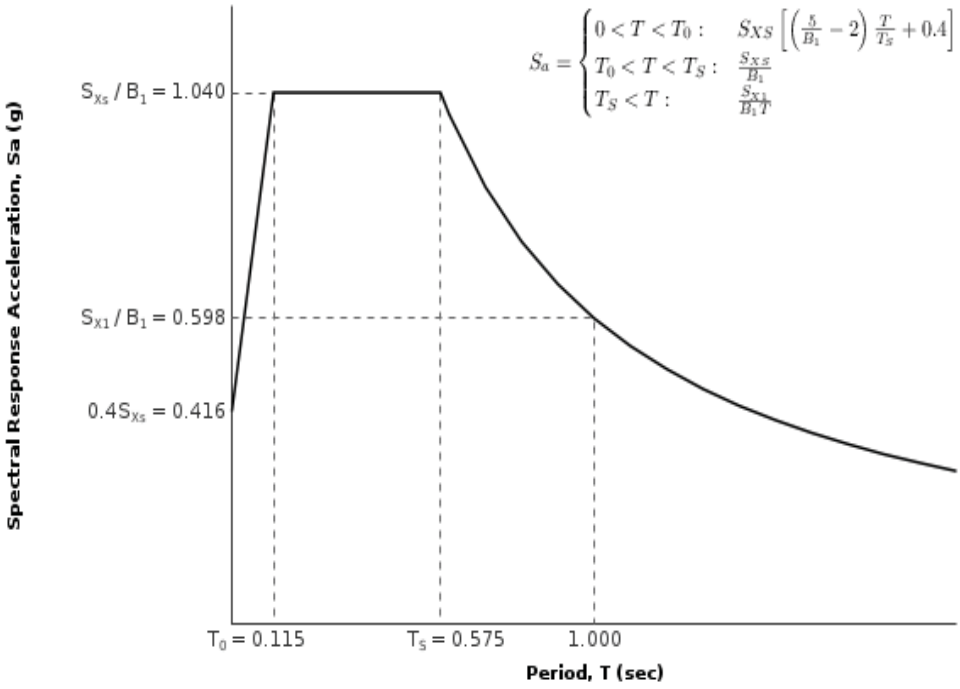
Note: Use straight–line interpolation for intermediate values of $S_1$

**For Site Class = D and $S_1$ = 0.598 g, $F_v$ = 1.500**

| | |
|---|---|
| **Provided as a reference for Equation (2-4):** | $S_{XS,BSE-2N} = F_a S_{S,BSE-2N}$ = 1.000 x 1.559 g = 1.559 g |
| **Provided as a reference for Equation (2-5):** | $S_{X1,BSE-2N} = F_v S_{1,BSE-2N}$ = 1.500 x 0.598 g = 0.897 g |
| **Equation (2–4):** | $S_{XS,BSE-1N}$ = ⅔ x $S_{XS,BSE-2N}$ = ⅔ x 1.559 g = 1.039 g |
| **Equation (2–5):** | $S_{X1,BSE-1N}$ = ⅔ x $S_{X1,BSE-2N}$ = ⅔ x 0.897 g = 0.598 g |

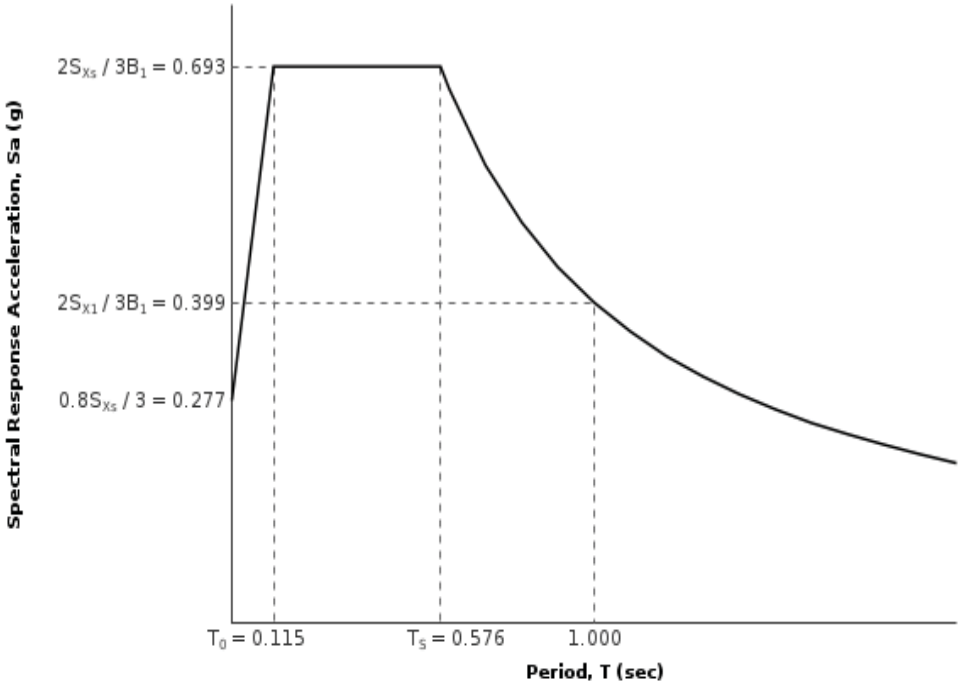
## Section 2.4.1.7.1 — General Horizontal Response Spectrum

Figure 2-1. General Horizontal Response Spectrum



## Section 2.4.1.7.2 — General Vertical Response Spectrum

The General Vertical Response Spectrum is determined by multiplying the General Horizontal Response Spectrum by ⅔.



# USGS Design Maps Detailed Report

## ASCE 41-13 Retrofit Standard, BSE-2E (33.72962°N, 118.30025°W)

Site Class D – "Stiff Soil", Risk Category I/II/III

### Section 2.4.1 – General Procedure for Hazard Due to Ground Shaking

5%/50-year maximum direction spectral response acceleration for 0.2s and 1.0s periods, respectively:

| | |
|---|---|
| **From Section 2.4.1.3** | $S_{S,5/50}$ = 1.109 g |
| **From Section 2.4.1.3** | $S_{1,5/50}$ = 0.403 g |

### Section 2.4.1.6 – Adjustment for Site Class

The authority having jurisdiction (not the USGS), site-specific geotechnical data, and/or the default has classified the site as Site Class D, based on the site soil properties in accordance with Section 2.4.1.6.1.

| SITE CLASS | SOIL PROFILE NAME | Soil shear wave velocity, $\overline{v}_S$, (ft/s) | Standard penetration resistance, $\overline{N}$ | Soil undrained shear strength, $\overline{s}_u$, (psf) |
|---|---|---|---|---|
| A | Hard rock | $\overline{v}_S$ > 5,000 | N/A | N/A |
| B | Rock | 2,500 < $\overline{v}_S$ ≤ 5,000 | N/A | N/A |
| C | Very dense soil and soft rock | 1,200 < $\overline{v}_S$ ≤ 2,500 | $\overline{N}$ > 50 | >2,000 psf |
| D | Stiff soil profile | 600 ≤ $\overline{v}_S$ < 1,200 | 15 ≤ $\overline{N}$ ≤ 50 | 1,000 to 2,000 psf |
| E | Stiff soil profile | $\overline{v}_S$ < 600 | $\overline{N}$ < 15 | <1,000 psf |
| E | — | Any profile with more than 10 ft of soil having the characteristics:<br>1. Plasticity index *PI* > 20,<br>2. Moisture content *w* ≥ 40%, and<br>3. Undrained shear strength $\overline{s}_u$ < 500 psf | | |
| F | — | Any profile containing soils having one or more of the following characteristics:<br>1. Soils vulnerable to potential failure or collapse under seismic loading such as liquefiable soils, quick and highly sensitive clays, collapsible weakly cemented soils.<br>2. Peats and/or highly organic clays (*H* > 10 feet of peat and/or highly organic clay where *H* = thickness of soil)<br>3. Very high plasticity clays (*H* > 25 feet with plasticity index *PI* > 75)<br>4. Very thick soft/medium stiff clays (*H* > 120 feet) | | |

For SI: 1ft/s = 0.3048 m/s 1lb/ft² = 0.0479 kN/m²

Table 2–3. Values of $F_a$ as a Function of Site Class and Mapped Short-Period Spectral Response Acceleration $S_s$

| Site Class | Mapped Spectral Acceleration at Short-Period $S_s$ | | | | |
|---|---|---|---|---|---|
| | $S_S \leq 0.25$ | $S_S = 0.50$ | $S_S = 0.75$ | $S_S = 1.00$ | $S_S \geq 1.25$ |
| A | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| B | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| C | 1.2 | 1.2 | 1.1 | 1.0 | 1.0 |
| D | 1.6 | 1.4 | 1.2 | 1.1 | 1.0 |
| E | 2.5 | 1.7 | 1.2 | 0.9 | 0.9 |
| F | Site-specific geotechnical and dynamic site response analyses shall be performed | | | | |

Note: Use straight–line interpolation for intermediate values of $S_S$

**For Site Class = D and $S_S$ = 1.109 g, $F_a$ = 1.057**

Table 2–4. Values of $F_v$ as a Function of Site Class and Mapped Spectral Response Acceleration at 1 s Period $S_1$

| Site Class | Mapped Spectral Acceleration at 1 s Period $S_1$ | | | | |
|---|---|---|---|---|---|
| | $S_1 \leq 0.10$ | $S_1 = 0.20$ | $S_1 = 0.30$ | $S_1 = 0.40$ | $S_1 \geq 0.50$ |
| A | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| B | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| C | 1.7 | 1.6 | 1.5 | 1.4 | 1.3 |
| D | 2.4 | 2.0 | 1.8 | 1.6 | 1.5 |
| E | 3.5 | 3.2 | 2.8 | 2.4 | 2.4 |
| F | Site-specific geotechnical and dynamic site response analyses shall be performed | | | | |

Note: Use straight–line interpolation for intermediate values of $S_1$

**For Site Class = D and $S_1$ = 0.403 g, $F_v$ = 1.597**

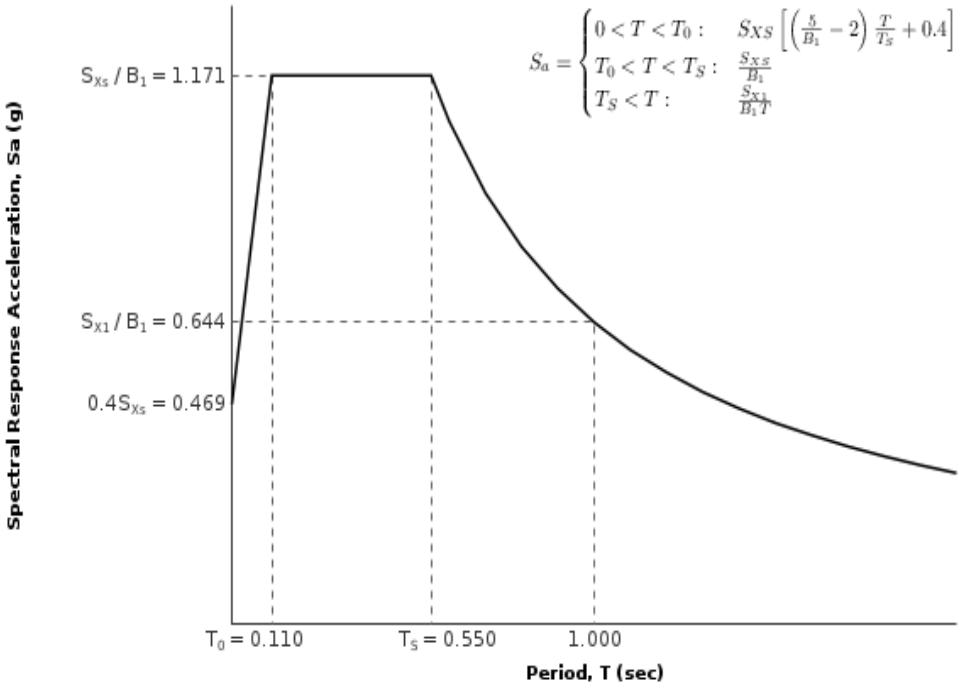
| | |
|---|---|
| **Provided as a reference for Equation (2-4):** | $F_a S_{S,5/50}$ = 1.057 x 1.109 g = 1.171 g |
| **Provided as a reference for Equation (2-5):** | $F_v S_{1,5/50}$ = 1.597 x 0.403 g = 0.644 g |
| **Provided as a reference for Equation (2-4):** | $S_{XS,BSE-2N} = F_a S_{S,BSE-2N}$ = 1.559 g |
| **Provided as a reference for Equation (2-5):** | $S_{X1,BSE-2N} = F_v S_{1,BSE-2N}$ = 0.897 g |

**Equation (2–4):** $S_{XS,BSE-2E} = MIN[F_a S_{S,5/50}, S_{XS,BSE-2N}] = MIN[1.171g, 1.559g] = 1.171g$

**Equation (2–5):** $S_{X1,BSE-2E} = MIN[F_v S_{1,5/50}, S_{X1,BSE-2N}] = MIN[0.644g, 0.897g] = 0.644g$

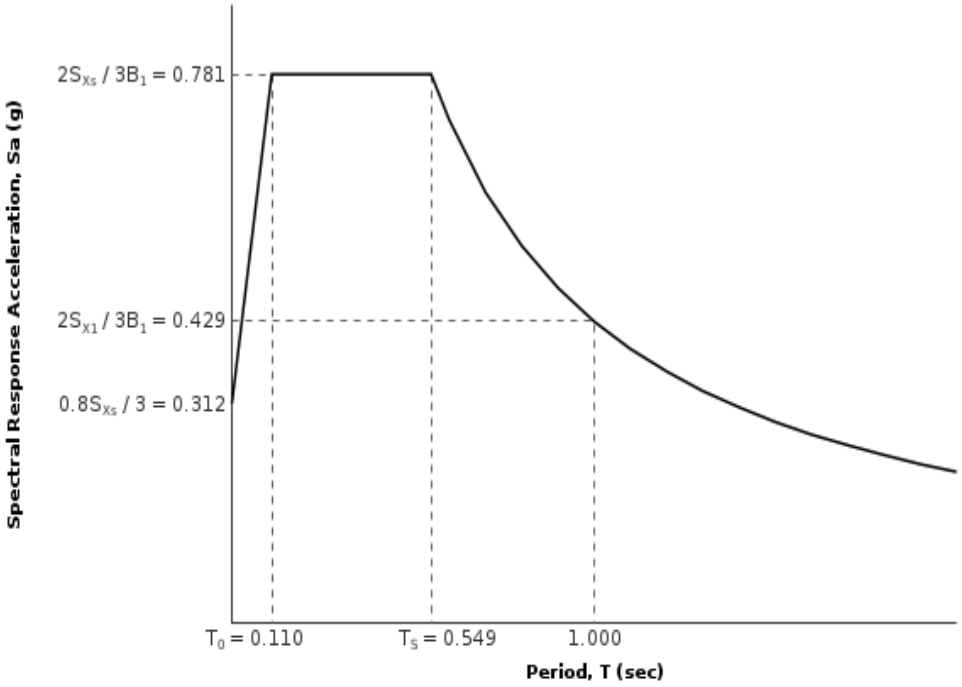
## Section 2.4.1.7.1 — General Horizontal Response Spectrum

Figure 2-1. General Horizontal Response Spectrum



## Section 2.4.1.7.2 — General Vertical Response Spectrum

The General Vertical Response Spectrum is determined by multiplying the General Horizontal Response Spectrum by ⅔.



# USGS Design Maps Detailed Report

## ASCE 41-13 Retrofit Standard, BSE-2N (33.72962°N, 118.30025°W)

Site Class D – "Stiff Soil", Risk Category I/II/III

## Section 2.4.1 – General Procedure for Hazard Due to Ground Shaking

**From Section 2.4.1.1** $S_{S,BSE-2N}$ = 1.559 g

**From Section 2.4.1.1** $S_{1,BSE-2N}$ = 0.598 g

## Section 2.4.1.6 – Adjustment for Site Class

The authority having jurisdiction (not the USGS), site-specific geotechnical data, and/or the default has classified the site as Site Class D, based on the site soil properties in accordance with Section 2.4.1.6.1.

| SITE CLASS | SOIL PROFILE NAME | Soil shear wave velocity, $\overline{v}_s$, (ft/s) | Standard penetration resistance, $\overline{N}$ | Soil undrained shear strength, $\overline{s}_u$, (psf) |
|---|---|---|---|---|
| A | Hard rock | $\overline{v}_s$ > 5,000 | N/A | N/A |
| B | Rock | 2,500 < $\overline{v}_s$ ≤ 5,000 | N/A | N/A |
| C | Very dense soil and soft rock | 1,200 < $\overline{v}_s$ ≤ 2,500 | $\overline{N}$ > 50 | >2,000 psf |
| D | Stiff soil profile | 600 ≤ $\overline{v}_s$ < 1,200 | 15 ≤ $\overline{N}$ ≤ 50 | 1,000 to 2,000 psf |
| E | Stiff soil profile | $\overline{v}_s$ < 600 | $\overline{N}$ < 15 | <1,000 psf |
| E | — | Any profile with more than 10 ft of soil having the characteristics:<br>1. Plasticity index *PI* > 20,<br>2. Moisture content *w* ≥ 40%, and<br>3. Undrained shear strength $\overline{s}_u$ < 500 psf | | |
| F | — | Any profile containing soils having one or more of the following characteristics:<br>1. Soils vulnerable to potential failure or collapse under seismic loading such as liquefiable soils, quick and highly sensitive clays, collapsible weakly cemented soils.<br>2. Peats and/or highly organic clays (*H* > 10 feet of peat and/or highly organic clay where *H* = thickness of soil)<br>3. Very high plasticity clays (*H* > 25 feet with plasticity index *PI* > 75)<br>4. Very thick soft/medium stiff clays (*H* > 120 feet) | | |

For SI: 1ft/s = 0.3048 m/s 1lb/ft² = 0.0479 kN/m²

Table 2–3. Values of $F_a$ as a Function of Site Class and Mapped Short-Period Spectral Response Acceleration $S_s$

| Site Class | Mapped Spectral Acceleration at Short-Period $S_s$ | | | | |
|---|---|---|---|---|---|
| | $S_S \leq 0.25$ | $S_S = 0.50$ | $S_S = 0.75$ | $S_S = 1.00$ | $S_S \geq 1.25$ |
| A | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| B | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| C | 1.2 | 1.2 | 1.1 | 1.0 | 1.0 |
| D | 1.6 | 1.4 | 1.2 | 1.1 | 1.0 |
| E | 2.5 | 1.7 | 1.2 | 0.9 | 0.9 |
| F | Site-specific geotechnical and dynamic site response analyses shall be performed | | | | |

Note: Use straight–line interpolation for intermediate values of $S_S$

**For Site Class = D and $S_S$ = 1.559 g, $F_a$ = 1.000**

Table 2–4. Values of $F_v$ as a Function of Site Class and Mapped Spectral Response Acceleration at 1 s Period $S_1$

| Site Class | Mapped Spectral Acceleration at 1 s Period $S_1$ | | | | |
|---|---|---|---|---|---|
| | $S_1 \leq 0.10$ | $S_1 = 0.20$ | $S_1 = 0.30$ | $S_1 = 0.40$ | $S_1 \geq 0.50$ |
| A | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| B | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| C | 1.7 | 1.6 | 1.5 | 1.4 | 1.3 |
| D | 2.4 | 2.0 | 1.8 | 1.6 | 1.5 |
| E | 3.5 | 3.2 | 2.8 | 2.4 | 2.4 |
| F | Site-specific geotechnical and dynamic site response analyses shall be performed | | | | |

Note: Use straight–line interpolation for intermediate values of $S_1$

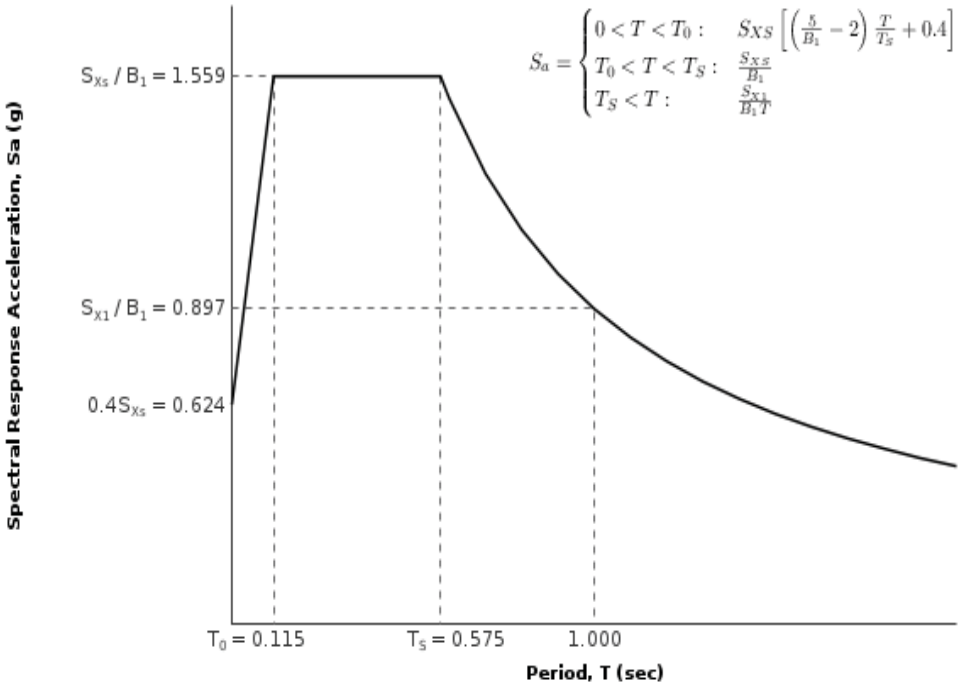
**For Site Class = D and $S_1$ = 0.598 g, $F_v$ = 1.500**

**Equation (2–4):** $S_{XS,BSE-2N} = F_a S_{S,BSE-2N} = 1.000 \times 1.559\ g = 1.559\ g$

**Equation (2–5):** $S_{X1,BSE-2N} = F_v S_{1,BSE-2N} = 1.500 \times 0.598\ g = 0.897\ g$

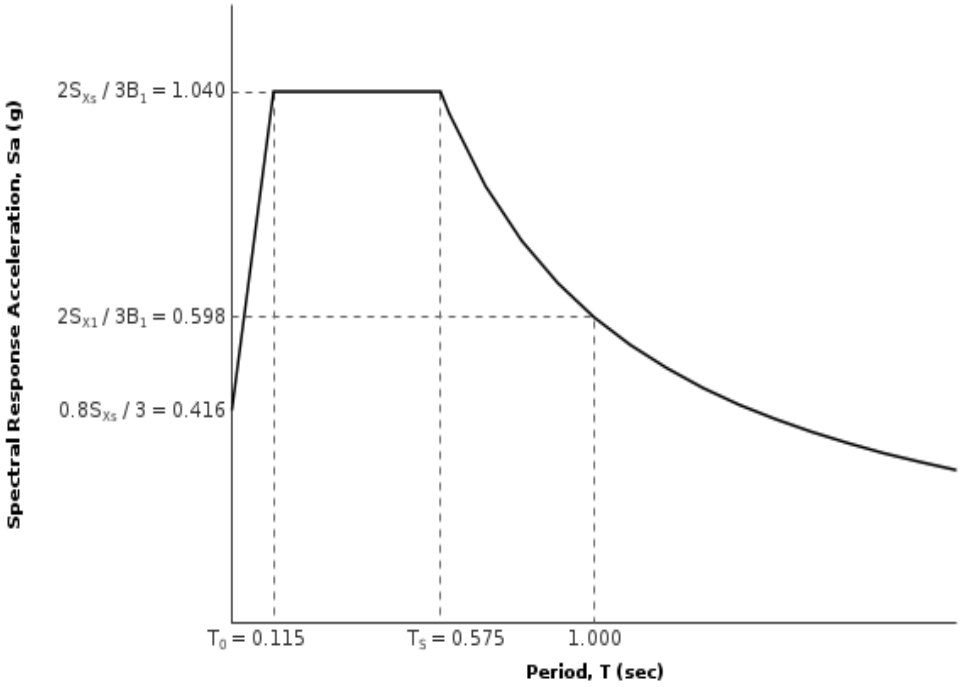
## Section 2.4.1.7.1 — General Horizontal Response Spectrum

Figure 2-1. General Horizontal Response Spectrum



## Section 2.4.1.7.2 — General Vertical Response Spectrum

The General Vertical Response Spectrum is determined by multiplying the General Horizontal Response Spectrum by ⅔.



# Appendix E
# Preliminary Environmental Assessment

ESA

# DRAFT PRELIMINARY ENVIROMENTAL ASSESSMENT EQUIVALENT

**SAN PEDRO HIGH SCHOOL**
**COMPREHENSIVE MODERNIZATION PROJECT**
**1001 W. 15TH STREET**
**LOS ANGELES, CALIFORNIA 90731**

**EnSafe Project Number:**
**0888820335**

**Prepared for:**

**Los Angeles Unified School District**
**Office of Environmental Health and Safety**
**333 South Beaudry Avenue, 21st Floor**
**Los Angeles, California 90017**

**Prepared by:**

**EnSafe Inc.**
**5001 Airport Plaza Drive, Suite 260**
**Long Beach, California 90815**
**(562) 740-1060**
**(800) 588-7962**
**www.ensafe.com**

**June 30, 2017**

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**June 30, 2017**

Daryl Hernandez _____ _____
Project Manager Signature

Travis Stravasnik _____ _____
Project Manager Signature

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## List of Acronyms

| | |
|---|---|
| AARST | American Association of Radon Scientists and Technologists |
| bgs | Below Ground Surface |
| CAL — EPA | California Environmental Protection Agency |
| CSC | Clark Seif Clark, Inc. |
| CSM | Conceptual Site Model |
| COPC | Contaminant of Potential Concern |
| cy | Cubic Yards |
| DTSC | Department of Toxic Substances Control |
| E2 | E2 ManageTech, Inc. |
| ESA | Environmental Site Assessment |
| HVAC | Heating, Ventilation and Air Conditioning |
| LAFD | Los Angeles Fire Department |
| LAUSD | Los Angeles Unified School District |
| mg/kg | Milligrams per Kilogram |
| NRPP | National Radon Proficiency Program (NRPP) |
| OCP | Organochlorine Pesticide |
| OEHS | Office of Environmental Health and Safety |
| PCB | Polychlorinated Biphenyl |
| pCi/L | Picocuries per Liter |
| PEA-E | Preliminary Environmental Assessment Equivalent |
| RAW | Removal Action Work Plan |
| RCRA | Resource Conservation and Recovery Act |
| REC | Recognized Environmental Condition |
| RPD | Relative Percent Difference |
| RSL | Regional Screening Levels |
| RWQCB | Regional Water Quality Control Board |
| SL | Screening Level |
| TPH | Total Petroleum Hydrocarbons |
| USA | Underground Services Alert |
| U.S. EPA | United States Environmental Protection Agency |
| VOC | Volatile Organic Compound |

## EXECUTIVE SUMMARY

This document presents the Preliminary Environmental Assessment Equivalent (PEA-E) for the San Pedro High School Comprehensive Modernization Project located at 1001 W. 15th Street (Site) in the community of San Pedro , city and county of Los Angeles, California (Figure 1). EnSafe Inc. (formerly E2 ManageTech, Inc. [E2]), on behalf of the Los Angeles Unified School District (LAUSD), has prepared this PEA-E Report based on the Scope of Services provided by LAUSD, dated July 8, 2016 (LAUSD 2016), and the attached PEA-E Work Plan and Soil and Radon Sampling plan that was prepared by Clark Seif Clark, Inc. (CSC) and dated June 22, 2016 (CSC 2016b). This report was further supplemented by information in the Phase I Environmental Site Assessment prepared by CSC, and dated June 7, 2016 (CSC 2016a). This PEA-E was prepared in general accordance with the guidelines of the State of California Environmental Protection Agency Department of Toxic Substances Control (DTSC) Preliminary Endangerment Assessment Guidance Manual (January 1994, Interim Final — Revised, October 2013).

LAUSD is proposing to demolish the Industrial Arts Building, Shop Building, and 10 portable buildings on the western portion of the campus (Figure 2). The existing Home Economics Building, Administration/Classroom Building, Physical Education Building, and Classroom Building 1 will experience modernization which includes updated heating, ventilation, and air conditioning systems. No planned activities were reported for the Gymnasium Building, Girls Gymnasium, or Classroom Building 2.

The purpose of this PEA-E was to evaluate soil in the proposed demolitions areas for the presence of the noted contaminants of concern. The scope of the soil evaluation was limited to the areas of demolition/construction and did not include the entire San Pedro High School campus. The PEA-E also provides a limited evaluation of existing radon conditions in the above-noted buildings that are planned for modernization.

The Phase I Environmental Site Assessment (CSC 2016a) for the school found the following recognized environmental condition (REC) and recommendation:

- *There is a clarifier associated with the operation of an auto shop that was located in one of the building scheduled for demolition. Further investigation of the soil in the location of the clarifier is warranted.*

In addition to the REC, the following items of concern and recommendations were provided by CSC:

- *Based on the possibility of the historic use of termiticides, herbicides including arsenic, pesticides, PCBs in caulking and lead-based paint, CSC recommends that surficial soils in the construction area be sampled.*

- *Mitigation measures for radon intrusion [should] be implemented. Surveys previously conducted by LAUSD confirmed its presence. This finding is an indoor air quality concern.*

- *There are decommissioned DWP transformers in the vault in the basement of the administration building that might contain PCBs.*

The scope of work provided by LAUSD and this PEA-E do not address the potential presence of polychlorinated biphenyls in or around the DWP electrical transformers.

EnSafe conducted the sampling and analysis program between August 2016 and March 2017. The soil sampling and analysis program comprised 50 primary borings (SB1 through SB50) and 102 step-out soil borings. The step-out borings were advanced to further assess the extent of arsenic, lead, or organochlorine pesticide (OCP) concentrations that exceeded the DTSC screening levels. The lateral and vertical extent of arsenic, lead, and OCP concentrations were either defined by step-out and step-down samples, or sampling was discontinued due to subsurface utility conflicts and hillslopes.

The soil sample analytical results reported indicate that the contaminants of potential concern polychlorinated biphenyls, total petroleum hydrocarbons, and volatile organic compounds were not detected above their respective screening thresholds within the project area, and thus are not anticipated to pose an unacceptable health risk either by inhalation, ingestion, or dermal contact during planned excavation or construction activities. This conclusion is limited to the target compounds and depths at each of the 13 structures included in this PEA-E.

Soil sampling and step-out sampling analytical results indicated that arsenic, lead, and/or OCP concentrations exceeded the health-based screening levels at 27 surficial soil locations. Of the 27 areas, 17 were impacted with arsenic, 10 were impacted with lead, and 5 were impacted with OCPs (chlordane or dieldrin) above the screening levels. There were four locations where two or more compounds exceeded their respective screening levels.

The proposed San Pedro High School modernization project will disturb surficial soil at the 27 locations of concern, which could result in a pathway for exposure to students, faculty, or construction workers. Prior to construction, EnSafe recommends soil removal and confirmation sampling in the areas of concern. After confirmation samples are obtained that show contaminants of potential concern below health screening levels for residential land use, no further action will be required.

Based on the areal dimensions and estimated depths, the 27 excavation areas represent an approximate in situ volume of 226 cubic yards of arsenic-, lead-, and OCP-impacted soil. Due to a loss of compaction after excavation, the in-situ volume may increase and has adjusted by 50 percent to a total stockpile and disposal volume of 339 cubic yards. The locations of utilities should be verified prior to soil disturbance and the excavation limits adjusted accordingly. The use of hand tools may be appropriate for excavations in proximity to buried utility lines.

A Removal Action Work Plan should be prepared prior to demolition or construction activities that would disturb the areas of concern. The Removal Action Work Plan should contain a description of the contamination, excavation dimensions, methodology, transportation and disposal, confirmation sampling plan, methods to ensure worker and public health and safety, and cleanup goals. Community notices should be distributed in accordance with LAUSD policy. A Removal Action Completion Report should be completed before continuing with the proposed modernization project.

Radon samples were collected from four locations including the Administration building, Classroom Building 1, Physical Education building, and Home Economics building. The radon testing locations and evaluation are independent of the soil testing activities. Radon testing results reported concentrations ranging from below the reporting limit of 0.2 picocuries per liter (pCi/L) up to 3.9 pCi/L in the subject buildings. The highest radon concentration of 3.9 pCi/L was found in Room 231 of Classroom Building 1. The sample from the Cafeteria in the Home Economics building was flagged with a recommendation for additional testing, due to the doors being open at the time of the sample retrieval.

Radon sample results collected from the subject buildings were below the United States Environmental Protection Agency action level of 4.0 pCi/L. However, previous testing provided by LAUSD showed elevated radon levels in Classroom Building 1 and retesting was recommended. Based on the previous results, and because the EnSafe testing was restricted to four buildings, LAUSD should consider additional testing and/or radon mitigation prior to the design and construction of the San Pedro High School modernization project. It is our understanding that modernization of four buildings will include upgrades to the heating, ventilation, and air conditioning. The results of radon testing may be used to evaluate whether radon concentrations can be mitigated through appropriate ventilation and air exchange rates.

## 1.0 INTRODUCTION

This document presents the Preliminary Environmental Assessment Equivalent (PEA-E) for the San Pedro High School Comprehensive Modernization Project located at 1001 W. 15th Street (Site) in the community of San Pedro, city and county of Los Angeles, California (Figure 1). EnSafe Inc. (formerly E2 ManageTech, Inc. [E2]), on behalf of the Los Angeles Unified School District (LAUSD), has prepared this PEA-E Report based on the Scope of Services provided by LAUSD, dated July 8, 2016 (LAUSD 2016), and the attached PEA-E Work Plan (Appendix A) that was prepared by Clark Seif Clark, Inc. (CSC) and dated June 22, 2016 (CSC 2016b). This document was further supplemented by information in the Phase I Environmental Site Assessment (ESA) prepared by CSC, and dated June 7, 2016 (CSC 2016a). This PEA-E was prepared in general accordance with the guidelines of the State of California Environmental Protection Agency Department of Toxic Substances Control (DTSC) Preliminary Endangerment Assessment Guidance Manual (January 1994, Interim Final — Revised, October 2013).

LAUSD is proposing to demolish the Industrial Arts Building, Shop Building, and 10 portable buildings on the western portion of the campus (Figure 2). The existing Home Economics Building, Administration/Classroom Building, Physical Education Building, and Classroom Building 1 will experience modernization which includes updated heating, ventilation, and air conditioning (HVAC) systems. No planned activities were reported for the Gymnasium Building, Girls Gymnasium, or Classroom Building 2.

The scope of services for this PEA-E Report is set forth in the above-referenced LAUSD Scope of Services and a proposal from E2 dated July 15, 2016 (E2 2016). The scope of services has been authorized under Master Services Agreement No. 1290031/4400000960, Work Authorization No. E 3 08102-1EMT, dated July 21, 2016. The referenced agreement with E2 was assigned to EnSafe as of March 10, 2017. EnSafe completed the scope of work.

The Phase I ESA (CSC 2016a) for the school found the following recognized environmental condition (REC) and recommendation:

- *There is a clarifier associated with the operation of an auto shop that was located in one of the building scheduled for demolition. Further investigation of the soil in the location of the clarifier is warranted.*

In addition to the REC, the following items of concern and recommendations were provided by CSC:

- *Based on the possibility of the historic use of termiticides, herbicides including arsenic, pesticides, PCBs in caulking and lead-based paint, CSC recommends that surficial soils in the construction area be sampled.*

- *Mitigation measures for radon intrusion [should] be implemented. Surveys previously conducted by LAUSD confirmed its presence. This finding is an indoor air quality concern.*

- *There are decommissioned DWP transformers in the vault in the basement of the administration building that might contain PCBs.*

The scope of work provided by LAUSD and this PEA-E do not address the potential presence of polychlorinated biphenyls (PCBs) in or around the electrical transformers.

The purpose of the PEA-E is to evaluate soil in the proposed demolitions areas for the presence of the noted contaminants of potential concern (COPCs). The scope of the soil evaluation is limited to the areas of demolition/construction and does not include the entire San Pedro High School campus. The PEA-E also provides a limited evaluation of existing radon conditions in the above-noted buildings that are planned for modernization.

The Environmental Professional for the project is Mr. Travis Stravasnik. The Professional Engineer for the project is Mr. Daryl Hernandez. The Phase I ESA was prepared by CSC. The soil sampling was performed by Mr. Kevin Lin and Ms. Gabriela Valenzuela from EnSafe, and the radon testing was conducted by Ms. ReveAnn Ellrott from Radon Testing Services as a subconsultant.

## 2.0 SITE DESCRIPTION

Descriptions of the Site as well as local geology and hydrogeology are included below. The information is based on the reporting by CSC as part of the Phase I ESA.

### 2.1 Site description

The San Pedro High School campus is addressed 1001 W. 15th Street, San Pedro, California 90731 (Figure 1). Mr. Dane Robinson is the main contact person for the LAUSD Office of Environmental Health and Safety (OEHS) San Pedro High School project and can be reached at (213) 241-4122. Mr. Jay Nager is the Complex Project Manager for the Site and can be reached at the office line (310) 808-1510. The campus comprises Los Angeles County Assessor's Parcel Number 7458-024-918. The PEA-E is limited to the areas of modernization.

The campus consists of an irregularly-shaped parcel that is bordered by W. 15th Street and W. 14th Street to the north, Dana Middle School (1501 S. Cabrillo Avenue) to the east, W. 17th Street to the south, and S. Leland Street to the west. The campus is located in the community of San Pedro, within the city and county of Los Angeles (Figure 1). Ten permanent buildings, nine portable classrooms, and a storage bunker make up the remaining Site buildings. Other improvements include a baseball field, football field, softball field, and parking lot.

Land uses in the vicinity of the campus are predominantly single-family or multi-family residential. Limited commercial/retail uses are present approximately 1,000 feet to the east of the Site along S. Grand Avenue.

### 2.2 PEA-E Sampling Areas

Soil sampling was conducted in the proposed areas of demolition at 10 portable structures or outbuildings, Industrial Arts building, Shop building, and Girls Gymnasium. The Girls Gymnasium is on the southern-central portion of the campus, with the remaining buildings located on the western portion of the campus. The layout of the Site is shown on Figure 2 with individual buildings shown on Figures 3 through 10. Based on maps provided by LAUSD, the following identifiers were used for the buildings:

- AA-244 (Portable)
- AA-347 (Portable)
- AA-2384 (Portable)
- AA-2383 (Portable)

- Lunch Shelter
- Flammable Storage (Portable)
- Unnamed Classroom
- BB-182 (Portable)
- AA-2082 (Portable)
- Shop
- Unnamed Portable
- Industrial Arts
- Girls Gymnasium

Surface conditions around these buildings predominantly consist of asphalt pavement. Some areas have concrete pavement, or are located in unpaved landscape areas.

Radon testing was conducted in the Classroom Building 1, Administration building, Physical Education building, and Home Economics building. Modernization of these buildings will include upgrades to the HVAC. The results of radon testing will be used to evaluate whether radon concentrations can be mitigated through appropriate ventilation and air exchange rates.

No planned activities were reported for the Gymnasium Building or Classroom Building 2. Soil and radon conditions in these areas are excluded from the scope of work for this PEA-E.

## 2.3 Site Geology and Hydrogeology

The Site is shown on the U.S. Geological Survey, Torrance, California, 7-1/2 minute topographic quadrangle (U.S. Geological Survey 2012) at an elevation ranging from approximately 120 to 200 feet above mean sea level. The topography in the Site vicinity slopes moderately to the east and west.

Review of geologic and hydrogeologic references was beyond the scope of work of this report. Soil conditions observed during EnSafe's sampling activities, to a depth of 8 feet below ground surface (bgs), were characterized by sand and silty sand. The CSC Phase I ESA provided the following description of the geologic setting.

> *According to the EDR Geophysical Setting Report, the Subject Property lies in an area where the general geologic formation is of the Cenozoic era, Tertiary system, Eocene series. The dominant soil composition in the general area of the Subject Property is of the Calleguas series with a clay loam texture within the top 16 inches. This soil group is classified as Class D with very low*

*infiltration rates. The soil drainage class is described as well drained and does not meet the requirements for a hydric soil. The corrosion potential for uncoated steels in this type of soil is listed as high. The depth to bedrock is approximated to be between 8 and 20 inches.*

*Alquist-Priolo Earthquake Fault Zones are regulatory zones that encompass surface traces of active faults that have a potential for future surface fault ruptures that would impact existing or future structures. The nearest fault is approximately 1.5 miles away (Palos Verdes Fault Zone) in the Transverse Ranges and Los Angeles Basin region. This is not an Alquist-Priolo Earthquake Fault Zone. (http://zimas.lacity.org).*

The CSC Phase I also provided the following summary of the hydrogeologic setting.

*Groundwater flow direction is southeast towards the Pacific Ocean. Approximate measured depth to water is 15 to 16 feet. The nearest hydrogeological information comes from a site one-half to one mile east of the Subject Property where there are four aquifers: the semi-perched; Gage; Lynwood; and the Silverado. The unconfined semi-perched and underlying Gage aquifers are separated by the Bellflower aquiclude (EDR GeoCheck Report, 2016).*

# 3.0 BACKGROUND

## 3.1 Site Status and History

Based on the historical sources review as reported by the CSC Phase I ESA, there were no identified uses of the Site until the construction of several residential structures between 1923 and 1925. CSC stated that the land for the present day campus was acquired by LAUSD beginning in 1934 and continuing until 1969. Former owners of portions of the property included the Board of Water and Power Commissioners of the City of Los Angeles and the Southern California Gas Company. The high school was constructed sometime after 1935.

## 3.2 Hazardous Material/Substance/Waste Management Information

CSC conducted a review of historical sources, regulatory agency records, and current Site conditions to provide information regarding hazardous materials and wastes at the Site. South Coast Air Quality Management District air quality permits indicated the presence of a spray booth in 1980 and storage of more than 50 pounds of refrigerant in 2012. City of Los Angeles Fire Department (LAFD) records included waste stream and hazardous materials storage lists for 2010 and 2012. The waste streams generally consisted of science classroom wastes (lab pack, formaldehyde), clarifier sludge from the Auto Shop, used oil and flammable liquids from the Auto Shop, asbestos, fluorescent light tubes, and flammable solids. Hazardous materials listed in the LAFD records included flammable liquids and solids, photo development waste silver, caustics, clarifier waste, universal wastes, flooring finish, paint, and fuels (diesel and gasoline in quantities less than 55 gallons). Chemicals noted to be on the Site during the CSC reconnaissance included photographic fixer, chemistry lab chemicals, paint, cleaning supplies, and diesel and gasoline fuels. No spills were reported by CSC.

None of the historical sources, regulatory agency records, or Site reconnaissance observations were noted by CSC as presenting an environmental concern to the Site, and no further actions were recommended.

## 3.3 Records Review

Records review findings are discussed in the Phase I ESA (CSC 2016a). The REC and recommendations associated with the Phase I are described in Section 1 of this PEA-E report.

## 3.4 Site Reconnaissance

Site reconnaissance findings are discussed in the Phase I ESA (CSC 2016a). As noted above, the REC and recommendations associated with the Phase I are described in Section 1 of this PEA- E report.

## 3.5 Interviews

Interviews are discussed in the Phase I ESA (E2 2014). As noted above, the REC and recommendations associated with the Phase I are described in Section 1 of this PEA-E report.

## 4.0 APPARENT PROBLEM

The Phase I ESA (CSC 2016a) for the school found the following REC and recommendation:

- *"There is a clarifier associated with the operation of an auto shop that was located in one of the buildings scheduled for demolition. Further investigation of the soil in the location of the clarifier is warranted."*

In addition to the REC, the following items of concern and recommendations were provided by CSC:

- *"Based on the possibility of the historic use of termiticides, herbicides including arsenic, pesticides, PCBs in caulking and lead-based paint, CSC recommends that surficial soils in the construction area be sampled.*

- *Mitigation measures for radon intrusion [should] be implemented. Surveys previously conducted by LAUSD confirmed its presence. This finding is an indoor air quality concern.*

- *There are decommissioned DWP transformers in the vault in the basement of the administration building that might contain PCBs."*

The scope of work provided by LAUSD and this PEA-E do not address the potential presence of PCBs in or around the electrical transformers. There are no known spills or releases that have occurred at the Site.

Due to the planned demolition and construction activities at the Site, soil disturbance could result in completion of the potential exposure pathways (ingestion, inhalation, and dermal contact) as further described in Section 5.1.

Radon gas has the potential to migrate from the underlying soil to the interior of the buildings that are being modernized. The presence of radon gas in the building would result in the completion of the inhalation exposure pathway and subsequent exposure to alpha radiation.

## 5.0 ENVIROMENTAL SETTING

The environmental setting is described above in Section 2.3 and in the Phase I ESA (CSC, 2016a). The following sections describe the sources, release and transport mechanisms, exposure point, and potential receptors for COPCs at the subject Site. Screening levels that are appropriate to these exposure scenarios were used as thresholds to evaluate whether further sampling would be conducted for individual COPC results. The screening levels are discussed in Section 6.6 with the sample analysis results. Radon testing is discussed separately in Section 8 of this report.

### 5.1 Conceptual Site Model

A preliminary conceptual site model (CSM) for the human health and ecological risk assessment is presented in Appendix B. The CSM identifies the potential receptor groups, exposure media, and exposure pathways associated with the Site. COPCs are identified.

Land use is considered residential in nature. Default exposure parameters that represent the Reasonable Maximum Exposure were utilized in calculating risk and hazard. The exposure pathways evaluated include incidental ingestion of soil, dermal contact with soils, inhalation of fugitive dust, and inhalation of chemical vapors emanating into outdoor and indoor air.

The CSM describes the pathways by which receptors (i.e., humans) may be exposed to the COPCs on the Site. An exposure pathway describes the course a chemical will take from a source to an exposure point where a receptor can be exposed to the chemical. A complete exposure pathway has five components:

- Primary source of contamination (e.g., storage tank, land application of a pesticide)
- Secondary source of contamination (e.g., vapors, wind-blown dust, subsurface soil)
- Release mechanism (e.g., direct contact, fugitive dust, storm water erosion, leaching)
- Transport media (e.g., surface soil, air, storm water runoff)
- Receptor (e.g., humans or biota)

A summary of the CSM process used for the Site is shown in Appendix B and discussed in the following paragraphs.

### 5.2 Source of Potential Contamination

As noted in the CSC Phase I ESA and the PEA-E scope of work, there are multiple potential sources that could have resulted in a release of hazardous substances to the environment. A clarifier associated with

the operation of an auto shop program was identified as having the potential to impact soil with petroleum hydrocarbons, volatile organic compounds (VOCs), and PCBs. Potential surficial soil impacts around the buildings were identified due to the following: prior use of organochlorine compounds and arsenic (herbicides, termiticides, or other pesticides); PCBs due to their potential presence in caulking; and, lead due to the weathering of lead-based paint. Pad mounted electrical transformers were identified as a potential source of PCBs in shallow soil on the south side of the Girls Gymnasium.

### 5.3 Release Mechanism

Leaking waste fluids from the clarifier or associated piping system are a potential release mechanism for petroleum hydrocarbons, VOCs, and PCBs. Use organochlorine pesticides (OCPs) as a termiticide has been known to result in significant concentrations around structures with wood components built prior to January 1, 1989. Arsenic may also be associated with direct application of pesticides. Weathering, scraping, chipping, and abrasion of potential PCB caulking or lead-based paint surfaces may cause these contaminants to be released and accumulate in soil around project area structures. Leaking dielectric fluid from pad-mounted electrical transformers is a potential source of PCBs in soil near the Girls Gymnasium.

### 5.4 Transport Mechanism

Once released to soil, petroleum hydrocarbons, OCPs, and PCBs are relatively immobile. These substances are not easily soluble, will typically not leach into rainwater and migrate to groundwater, will likely adsorb to soil particles, and will not readily volatilize and migrate as vapors. VOCs in soil matrix have the potential to volatilize and migrate. Advection, which is the transport mechanism by which soil vapor moves due to differences in pressure, could cause VOCs to migrate to indoor or outdoor air.

### 5.5 Exposure Point

The primary exposure point is expected to be dermal contact with soil-bearing COPCs. However, exposure could occur through inhalation of dust, or vapors containing COPCs. The incidental ingestion of surface soil is also a potential exposure point.

### 5.6 Potential Receptors

The potential receptors include construction workers involved in the development of new buildings, the community members located adjacent to the school campus, and students and staff at the school. Appendix B presents a summary evaluation of exposure pathways for the Site.

# 6.0 METHODOLOGY

## 6.1 Pre — Field Activities

Underground Services Alert (USA) was notified of the intent to conduct subsurface investigations at least 48 hours prior to initiation of each intrusive field sampling event. Proposed locations of subsurface investigation were clearly marked with white paint as required by USA. USA contacted utility owners on record within the Site vicinity to notify them of the intention to conduct subsurface investigations in proximity to buried utilities.

A geophysical survey was also conducted before each sampling event to assess for subsurface lines and obstructions. Ground penetrating radar and electromagnetic line location geophysical methods were used. Electromagnetics are used to identify underground tanks, drums, and conduits. These features are detected by those methods because of the ferrous and electrically conductive material of their construction. Ground penetrating radar is used as a follow up technology to characterize identified electromagnetic anomalies, or assess for subsurface voids.

## 6.2 Summary of Activities

Sampling was performed as detailed in the CSC PEA-E Work Plan, and in general accordance with the *Interim Guidance Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers*. A copy of the PEA-E Work Plan is provided in Appendix A. Table 1 of the PEA-E Work Plan provides the original proposed sampling methods and purpose for each boring location. Step-out and step-down sampling activities were conducted beyond the scope of the PEA-E Work Plan based on coordination with LAUSD OEHS staff.

### Surficial Sampling

In accordance with Figure 1 of the PEA-E Work Plan, 47 boring locations (SB1 through SB47) were designated for the collection of surficial soil samples to assess potential impacts from arsenic, lead, OCPs, or PCBs associated with the portable buildings, Shop Building, and Industrial Arts Building. Surficial sampling was also scheduled at location SB48 in a shared boring with the clarifier sampling. The surficial sampling locations were generally placed within 2 feet of the corresponding building and adjusted where utility conflicts were encountered.

Collection of the PEA-E Work Plan surface samples occurred between August 1 and 3, 2016. Coring of the asphalt or concrete surface was conducted to allow for collection of surface samples (0 to 6 inches bgs) and subsurface samples (12 to 18 inches bgs or 24 to 30 inches bgs).

Surficial samples were submitted for analysis of arsenic, lead, and OCPs. Approximately 10 percent of the surficial samples were also analyzed for PCBs. Subsurface samples were archived and, based on the results of the surficial samples, later analyzed for one or more of the COPCs for step-down purposes.

An additional 102 borings were added during two subsequent mobilizations to collect surficial step-out and subsurface step-down samples. The step-out boring samples were analyzed or archived as needed, based on the results of the primary samples. The step-out boring locations were targeted to extend 5 feet and 10 feet laterally in three cardinal directions away from the primary locations and associated buildings. The step-out borings were identified by the primary location, followed by the distance (feet) and direction, and finally by the sample depth. For example, identifier SB6-5E-12 represents a sample collected from 5 feet to the east of primary location SB6, at a depth of 12 inches bgs.

EnSafe and LAUSD personnel met at the Site on September 15, 2016, to mark out the first set of step-out locations. Selected locations were modified or eliminated, in coordination with LAUSD, due to subsurface utility conflicts, adjacent ascending or descending slopes, or architectural features such as retaining walls or concrete pavers. The first step-out sampling event for these locations occurred during the weekends of September 24-25 and October 1-2, 2016.

EnSafe and LAUSD personnel met at the Site again January 25, 2017, to mark out a second set of step-out locations. These step-out locations addressed COPCs that that were not delineated by the previous samples. The second step-out sampling event for these locations occurred on March 25, 2017. The process of analyzing additional step-out or step-down samples occurred incrementally as analytical data were received and compared to soil screening thresholds. Not all step-out samples required laboratory analysis.

### Clarifier Sampling

Two boring locations (SB48 and SB49) were designated for the collection of soil samples at the north and south ends of the clarifier, adjacent to the Industrial Arts Building. SB48 was also shared with the surficial sampling program. The two boring locations were advanced on August 2, 2016, during the first sampling mobilization. Coring of the concrete surface was conducted to allow for collection of soil samples near the estimated clarifier pipe depth (48 to 54 inches or 4 to 4.5 feet bgs) and 2 feet below the depth of the clarifier bottom (96 to 102 inches or 8 to 8.5 feet bgs). No step-out boring locations were associated with the clarifier sampling.

### Transformer Sampling

One boring location (SB50) was designated for the collection of shallow soil samples adjacent to the pad-mounted electrical transformers near the Girls Gymnasium. The boring was advanced on August 2, 2016, during the first mobilization. Coring of the concrete surface was conducted to allow for collection of a surface sample (0 to 6 inches bgs) and subsurface samples (12 to 18 inches bgs and 24 to 30 inches bgs). No step-out boring locations were associated with the transformer sampling.

### Deviations from the Work Plan

Surficial sampling locations were moved as needed to avoid subsurface utility conflicts. Sample depths were adjusted in areas where drilling refusal was encountered. Step-out sample locations were added based on the results of primary sample locations. These revised sampling locations and step-out sampling locations and depths are considered representative of the sampling area of this investigation. All other locations were sampled according to the PEA-E Work Plan.

## 6.3 Sampling Methods

Soil sample collection was conducted through the use of a hand auger. Soil samples were placed into laboratory-supplied glass jars sealed with a Teflon-lined lid. Hand auger and sampling equipment was decontaminated before each sample collection. The samples were labeled and placed into an insulated cooler with ice for transport under chain-of-custody procedures to BC Laboratories, a state certified laboratory for analysis. Following the sample collection, the borings were backfilled with bentonite pellets and patched to match the surrounding ground surface.

### 6.3.1 Field Quality Control

Field duplicate samples were collected and analyzed to evaluate sampling and analytical precision. Field duplicates were collected and analyzed in the same manner as the primary samples. Agreement between duplicate sample results will indicate good sampling and analytical precision. Specific locations were designated for collection of field duplicates prior to the start of the initial field activities. Field duplicates were collected at a frequency of 10 percent of the primary samples collected. Duplicate analyses were run for the following pairs: SB6-15E-00 (D32517-DUP1), SB11-10W-00 (DUP3A-100116), SB19-15E-00 (D32517-DUP2), SB26-15N-00 (D32517-DUP3), SB27-5E-00 (DUP2A-092416), SB34-15S-00 (D32517-DUP4, SB37-5E (DUP1A-100116), SB46-5E-00 (DUP4A-092516) and SB47-5W-00 (DUP5A-100216).

No precision goal for field duplicate analyses was stated in the Work Plan. However, plus or minus 100 percent relative percent difference (RPD) is commonly used for soil samples. Eight of the

nine field duplicates for arsenic and lead had RPDs within 100 percent. Duplicate samples were run for OCPs on pairs SB26-5S-00 (DUP1A-092416) and SB46-5E-00 (DUP4A-092516). Some of the OCPs had RPDs that were above 100 percent but less than 200 percent. This variation may be due to the fact that concentrations were low and just above the reporting limits.

### 6.4 Decontamination Procedures and Disposal of Investigation Derived Waste

The hand auger bit was decontaminated before the start of the first boring of the day, between each boring, and before departing the Site each day. The hand auger bit was decontaminated using a two-stage decontamination process consisting of a non-phosphate detergent wash and a distilled water rinse.

Following sample collection, soil cuttings were placed in 55-gallon drums. Decontamination water was contained in separate 55-gallon drums. The soil and decontamination fluids were profiled based on the laboratory analytical results and disposed of as non-hazardous waste.

On February 17, 2017, three 55-gallon drums of waste soil cuttings were hauled offsite as non-hazardous waste for recycling to Soil Safe in Adelanto, California. One drum of decontamination fluids was hauled as non-hazardous waste to Crosby & Overton in Long Beach, California. A second pick-up occurred on May 15, 2017, for one additional drum of soil and one additional drum of decontamination fluids. Copies of the waste manifests for both pick-ups are included as Appendix C. Other investigation derived waste, including sample container boxes and nitrile gloves, were disposed of in a garbage receptacle at EnSafe's office.

### 6.5 Sample Analysis Strategy

Soil samples were submitted to BC Laboratories, a laboratory accredited by the California State Water Resources Control Board Environmental Laboratory Accreditation Program, certificate #1186. Soil samples were analyzed in accordance with the PEA-E Work Plan schedule by the following analytical methods:

- Arsenic using United States Environmental Protection Agency (U.S. EPA) Method 6010B
- Lead using U.S. EPA Method 6010B
- OCPs using U.S. EPA Method 8081A
- PCBs using U.S. EPA method 8082
- VOCs using U.S. EPA Method 8260B/5035
- Total petroleum hydrocarbons (TPH) using U.S. EPA Method 8015B

Subsurface samples and step-out samples were archived at the laboratory pending the results of the surface samples.

### 6.6 Screening Levels

For preliminary screening purposes, to evaluate whether further step-out and/or Human Health Risk Assessment activities were needed, the COPC concentrations were compared to soil screening values. Several of the published sources provided both residential and commercial/industrial use scenario screening levels. In accordance with DTSC protocol, the school receptors were evaluated using a residential exposure scenario. Residential screening levels used are shown with the analytical results on Tables 1 through 5.

- **Arsenic —** The DTSC has established a regional background concentration for arsenic in soil for use as a screening tool (DTSC, undated). The background concentration does not distinguish between residential and commercial/industrial use scenarios. Based on their statistical analysis of arsenic data points, attributed to both naturally occurring and anthropogenic sources, the DTSC's upper bound estimate (95th percentile) for background arsenic concentrations in Southern California is 12 milligrams per kilogram (mg/kg).

- **Lead —** The DTSC Human Health Risk Assessment Note 3 — DTSC-Modified Screening Level (DTSC-SL), dated June 2016, for Residential Soil is 80 mg/kg.

- **Organochlorine Pesticides —** The DTSC-SL for chlordane in residential soil is 0.44 mg/kg. The remaining OCPs do not have DTSC-SLs and were therefore compared with most recent versions of U.S. EPA Region 9 Regional Screening Levels (RSLs).

- **Polychlorinated Biphenyls —** DTSC-SLs are not available for PCBs. The laboratory reports a total PCB concentration as well as individual Aroclors. Soil concentrations were therefore compared to the individual RSLs for Aroclors as well as the total PCB RSL of 0.23 mg/kg.

- **Petroleum Hydrocarbons —** Currently there are no established guidelines for acceptable concentrations of petroleum hydrocarbons in soil. However, the Regional Water Quality Control Board (RWQCB) has historically published "Maximum Soil Screening Levels" for different distances of contamination from groundwater (RWQCB 1996). The screening levels for soil, where groundwater is less than 20 feet bgs, are 100 mg/kg for TPH-gasoline, 100 mg/kg for TPH-diesel, and 1,000 mg/kg for TPH-motor oil.

- **Volatile Organic Compounds —** DTSC-SLs were used where available for VOCs. Remaining VOCs were compared to the RSLs.

## 6.7 Results

The following sections describe the results of the PEA-E analytical testing program. The results are present in Tables 1 through 5. Copies of the laboratory analytical reports and chain-of-custody records are presented in Appendix D.

### Arsenic

Arsenic was detected in each of the 48 primary surficial samples at concentrations ranging from 1.4 to 45 mg/kg. Thirteen of the arsenic concentrations exceeded the DTSC regional background of 12 mg/kg. Arsenic was detected in 170 of the 171 step-out or step-down samples at concentrations ranging from 1.6 to 59 mg/kg. Sixty-nine of the step-out/step-down arsenic concentrations exceeded the DTSC regional background of 12 mg/kg.

### Lead

Lead was detected in each of the 48 primary surficial samples at concentrations ranging from 2.7 to 230 mg/kg. Ten of the lead concentrations exceeded the DTSC-SL of 80 mg/kg. Lead was also detected in each of the 65 step-out/step-down samples at concentrations ranging from 2.3 to 250 mg/kg. Twelve of the step-out lead concentrations exceeded the DTSC-SL of 80 mg/kg.

### Organochlorine Pesticides

Thirty-five of the 48 primary soil surficial samples contained detectable concentrations of OCPs that included one or more of the following: dichlorodiphenyldichloroethane (4-4'-DDD), dichlorodiphenyldichloroethylene (4-4'-DDE), dichlorodiphenyltrichloroethane (4-4'-DDT), alpha-hexachlorocyclohexane (alpha-BHC), chlordane, and dieldrin. OCP concentrations exceeded the DTSC-SL for chlordane of 0.44 mg/kg and/or the RSL for dieldrin of 0.034 mg/kg, in seven of the primary surface samples. None of the other OCP concentrations exceeded their respective RLSs.

Twenty-two of the 26 step-out/step-down samples had detectable concentrations of one or more OCPs. In sample SB25-5E-00, the chlordane concentration of 0.96 mg/kg and the dieldrin concentration of 0.037 mg/kg exceeded the respective DTSC-SL and RSL. Sample SB25-10-00 had a chlordane concentration of 0.55 mg/kg, which also exceeded the DTSC-SL. No further step-out samples were collected in the SB25 area due to the confinement within a planter area. No other OCP concentrations in the step-out samples exceeded the DTSC-SLs or the RSLs.

### Polychlorinated Biphenyls

PCBs were not detected in the 12 primary samples analyzed. No step-out or step-down samples were analyzed for PCBs.

### Petroleum Hydrocarbons

TPH-gasoline and TPH-diesel were not detected in any of the seven samples analyzed from the clarifier area. TPH-motor oil was detected in three of the seven samples at concentrations of 40 mg/kg (SB48-00), 17 mg/kg (SB48-12), and 15 mg/kg (SB48-48). These concentrations are below the RWQCB Maximum Soil Screening Level of 1,000 mg/kg for TPH-motor oil.

No step-out or step-down samples were analyzed for TPH-gasoline, TPH-diesel, or TPH-motor oil.

### Volatile Organic Compounds

VOCs were not detected in the seven samples analyzed from the clarifier area. No step-out or step-down samples were analyzed for VOCs.

## 7.0 DISCUSSION OF RESULTS

The following sections describe the frequency and locations of soil concentrations that exceeded the screening levels, followed by a summary of the impacted areas. Use of the term "area" is meant to denote a primary boring location (e.g., SB1) and the associated step-out samples. The discussion of radon testing results is deferred to Section 8.

### 7.1 Identification of Impacted Areas

Analytical results indicated that arsenic, lead, and/or OPC concentrations exceeded the health-based screening levels at 27 surficial soil locations. These compounds are considered COCs for the Site.

TPH concentrations were below preliminary screening values and VOCs were not detected in subsurface samples from the clarifier area. TPH and VOCs are therefore eliminated as COPCs and no further action is warranted at the clarifier area. PCBs were not detected in surficial samples around the buildings or at the transformer near the Girls Gymnasium. PCBs are therefore eliminated as a COPC and no further action is warranted at the transformer area.

### 7.2 Delineation of Impacted Areas

Of the 27 primary boring and step-out areas, 17 were impacted with arsenic, 10 were impacted with lead, and 5 were impacted with OCPs (chlordane or dieldrin) above the screening levels. There were four locations where two or more compounds exceeded their respective screening levels. A summary of the sample area exceedances is provided in the following table.

**Sample Areas with COPCs above Screening Levels**

| Area ID | Arsenic | Lead | OCPs | |
|---|---|---|---|---|
| | | | Chlordane | Dieldrin |
| SB1 | X | | | |
| SB3 | | X | | |
| SB4 | X | | | |
| SB6 | X | | | |
| SB7 | | X | | |
| SB8 | X | | | |
| SB9 | | X | | |
| SB11 | X | | | |
| SB15 | X | | | |
| SB17 | | X | | |
| SB18 | X | | | |

| Sample Areas with COPCs above Screening Levels | | | | |
|---|---|---|---|---|
| | | | OCPs | |
| Area ID | Arsenic | Lead | Chlordane | Dieldrin |
| SB19 | X | | | |
| SB22 | X | | | |
| SB23 | | X | | |
| SB25 | X | | X | X |
| SB26 | X | X | X | |
| SB27 | X | | | |
| SB29 | | | X | |
| SB30 | | | X | |
| SB31 | | X | X | X |
| SB34 | | X | | |
| SB36 | | X | | |
| SB37 | X | | | |
| SB41 | X | | | |
| SB44 | X | | | |
| SB46 | X | X | | |
| SB47 | X | | | |

The lateral limits of impacts from arsenic, lead, and OCPs have been delineated at the 27 locations to the extent practicable, subject to limitations from architectural features, subsurface utilities, and hillslopes. The vertical extent of impacts have been delineated at 19 of the 27 surficial locations. LAUSD has elected not to collect additional step-down samples at the remaining eight locations and instead address these areas during a removal action.

## 7.3 Proposed Removal Action

EnSafe recommends a removal action on the campus at the locations where arsenic, lead, and OCPs exceeded the health screening levels. Post-excavation sampling is also recommended to provide vertical delineation and confirmation that COPC impacts have been removed. Based on the sample concentrations and noted limitations, the recommended excavations are shown on Figures 3 through 10. A summary of the COPCs, excavation limit rationale, and estimated volumes is provided in Table 6. It should be noted that the distances between sample locations and mapped utilities are approximate. Subsurface anomalies that suggested utility lines not mapped by LAUSD were also found. The locations of utilities should be verified prior to soil disturbance and the excavation limits adjusted accordingly. The use of hand tools may be appropriate for excavations in proximity to buried utility lines.

In the eight areas where vertical delineation is not available, based on direction from LAUSD, the initial excavations will be advanced to a depth of 36 inches. This excavation depth extends 6 inches beyond the deepest step-down samples and results in the removal of known contamination. Confirmation samples will be collected from these locations at the time of the removal action and compared to the respective health screening levels. Additional removals and re-sampling will be conducted as needed to address deeper contamination.

Based on the areal dimensions and estimated depths, the 27 excavation areas represent an approximate in situ volume of 226 cubic yards (cy) of arsenic-, lead-, and OCP-impacted soil. The volumes of individual excavations are provided in Table 6. Due to a loss of compaction after excavation, the in situ volume may increase and has adjusted by 50 percent to a total stockpile and disposal volume of 339 cy.

Arsenic and OCP concentrations of soils from the excavation areas are below levels that would qualify as California-hazardous waste or Resource Conservation and Recovery Act (RCRA)-hazardous waste. Lead concentrations exceeded 50 mg/kg at the 10 proposed lead excavation areas and at one arsenic/OCP excavation area (SB25). Based on a 10 times dilution factor applied when analyzing soluble lead by the Waste Extraction Test, this material may exceed the Soluble Threshold Limit Concentration (STLC) of 5 milligrams per liter. The STLC is the threshold to assess whether a material is a California-hazardous waste. Lead concentrations also exceeded 100 mg/kg at the 10 proposed lead excavation areas. Based on a 20 times dilution factor applied when analyzing soluble lead by the Toxicity Characteristic Leaching Procedure (TCLP), the waste material may also exceed the RCRA threshold of 5 milligrams per liter for classification as a hazardous waste. Based on these findings soil samples are being collected in order to make the California-hazardous and RCRA-hazardous waste determinations for lead. The results of the waste characterization will be provided in a Removal Action Workplan (RAW) which will be available for public review and comment.

### 7.4 Human Health Screening Evaluation

The purpose of the human health screening evaluation is to evaluate potential impacts to human receptors from exposure to COPCs in soil at the Site. In accordance with DTSC protocol, a residential scenario allowing unrestricted land use is used for the human health screening evaluation. The residential land use exposure parameters and the resulting health screening levels are more conservative and health protective than a commercial/industrial worker land use scenario.

Arsenic, lead, and OCPs are the only COPCs at the Site with soil concentrations that exceeded their respective health screening levels. The full data set and distribution characteristics of the COPCs throughout the Site could be used to evaluate whether the actual exposures experienced by a student or staff result in a lower risk. However, as described in Section 7.3, LAUSD has elected to remove soil from the locations that have been identified as having COPC concentrations above the health screening levels for residential land use. No further action will be required.

## 8.0 RADON TESTING AND RESULTS

Radon gas sampling was conducted in accordance with the LAUSD scope of work and the PEA-E Workplan. The following sections describe the background conditions and radon testing activities.

### 8.1 Radon Background

LAUSD developed a Radon Zones map dated April 26, 2016, which is based on radon data by zip code obtained from California Department of Public Health Indoor Radon Program, dated February 26, 2016. According to the map, the San Pedro High School campus is located in a Moderate Potential Radon Zone. Based on a review of the California Geological Survey, Radon Potential in Palos Verdes Area, California document, dated 2012, these hazard categories correspond to the percentage of homes that are likely to be equal to or greater than the U.S. EPA recommended radon action level of 4.0 picocuries per liter (pCi/L). The categories used were: high (≥ 20 percent of homes), moderate (≥ 5.0 to 19.9 percent of homes), low (< 5 percent of homes), and unknown (for geologic units with few or no data).

Previous radon measurements have been conducted at the San Pedro High School Campus. LAUSD provided EnSafe with a Radon Measurement Survey, prepared by Alta Environmental and dated March 8, 2016, which was conducted for planned renovations of the existing Classroom Building 2/Science Building. Radon measurements were collected for periods ranging from 83 to 87 hours from the first and second floors of the building. The testing results included radon concentrations above the U.S. EPA recommended action level of 4.0 pCi/L at two of the 18 locations. These included 4.7 pCi/L in Room 150-Storage and 8.5 pCi/L in the under stairs closet (former electrical closet). Radon measurements from the second floor of the building were below 4.0 pCi/L; however, the concentration of 2.9 pCi/L in Classroom 253 was considered unusual for a location above the ground floor.

Based on the radon measurements, Alta recommended retesting of selected areas as well as testing of the remaining buildings at the campus. Radon resistant construction design was further recommended by Alta for the new elevator installation, as well as new building additions.

### 8.2 Radon Sampling Methodology

EnSafe conducted limited radon testing in the areas specified by the LAUSD scope of work. The radon gas sampling locations were listed in Table 2 of the PEA-E Work Plan and included the Administration Building, Classroom Building, Physical Education Building, and Home Economics

Building. The building locations are shown on Figure 11. These buildings will reportedly be upgraded and reoccupied following the modernization project. The radon testing did not address the buildings included in the soil sampling program due to those buildings being scheduled for demolition, or the potential conditions of new buildings to be constructed at the campus.

Radon gas testing was conducted between August 6 and 8, 2016, by subcontractor Radon Testing Services. Ms. Ellrott is certified by American Association of Radon Scientists and Technologists (AARST) and the National Radon Proficiency Program (NRPP), registration 100519RT-MFM. A total of 28 short term and 5 quality control Liquid scintillation radon sampling devices were deployed by Ms. Ellrott on Saturday, August 6, 2016, while the school was unoccupied, and retrieved before classes resumed on August 8, 2016. The devices were in place for approximately 48 hours. Sampling protocols observed before or during the testing included the following:

- LAUSD turned off the HVAC system 12 hours prior to sampling and left the system off.
- Exterior doors and windows were closed for 12 hours prior to, and for the duration of, sampling. The Dance Room and Cafeteria doors were open on Monday morning when Ms. Ellrott returned to retrieve the samples. The duration of the doors being open was unknown and the condition was noted as an exception.
- Test devices were placed on the lowest level of the building that is occupied.
- Test devices were placed in the breathing zone, away from drafts and heat sources, at least 3 feet from exterior doors and windows, 1 foot from exterior walls, 20 inches from the floor, and no higher than 8 feet.

The Radon Gas Survey report is included in Appendix E.

### 8.3 Radon Sampling Results and Discussion

The radon testing devices were delivered under chain of custody procedures to RAdata (AARST-NRPP #101196AL) of Flanders, New Jersey for analysis of average radon concentration by U.S. EPA method #402-R-92-004. The radon results reported concentrations ranging from below the reporting limit of 0.2 pCi/L up to 3.9 pCi/L. The highest radon concentration of 3.9 pCi/L was found in Room 231 of Classroom Building 1. The sample from the Cafeteria in the Home Economics building was flagged with a recommendation for additional testing, due to the doors being open at the time of the

sample retrieval. A table showing the individual sample results is provided in the Radon Gas Survey report which is attached as Appendix E.

Radon sample results collected from the Administration building, Classroom building, Physical Education building, and Home Economics building were below the U.S. EPA action level of 4.0 pCi/L. However, previous testing provided by LAUSD showed elevated radon levels in Classroom Building 1 and retesting was recommended. Based on the previous results, and because the EnSafe testing was restricted to four buildings, LAUSD should consider additional testing and/or radon mitigation prior to the design and construction of the San Pedro High School modernization project. It is our understanding that modernization of four buildings will include upgrades to the HVAC. The results of radon testing may be used to evaluate whether radon concentrations can be mitigated through appropriate ventilation and air exchange rates.

# 9.0 COMMUNITY OUTREACH

## 9.1 Pre-Work Notices

EnSafe provided an advanced notice of the PEA-E activities in both English and Spanish to members of the community located near the PEA-E and the campus. The notices are attached in Appendix F.

### 9.1.1 Mailers

Copies of the Pre-Work Notice in both English and Spanish were sent to the homes of students who attend San Pedro High School. LAUSD OEHS provided EnSafe with a complete list of the students at San Pedro High School and their addresses. Notices were mailed to 2,391 students on July 15, 2016.

### 9.1.2 Handouts

On July 18, 2016, EnSafe hand delivered copies of the Pre-Work Notice in both English and Spanish to homes and properties that border the San Pedro High School campus. Approximately 200 notices were delivered.

### 9.1.3 Signs

EnSafe laminated copies of the Pre-Work Notices in English and Spanish and posted them on each side of the San Pedro High School campus.

## 9.2. Draft PEA Availability

The Draft PEA-E will be made available on the LAUSD Office of Environmental Health and Safety Site Assessment web page located at: http://achieve.lausd.net/oehs. The Draft PEA-E will be available for public review for a period of 30 days (July 14 to August 13, 2017). During this period LAUSD will accept written comments to the Draft PEA.

# 10.0 CONCLUSIONS AND RECOMMENDATIONS

## 10.1 Soil

The soil sample analytical results reported above indicate that the COPCs PCBs, TPH, and VOCs were not detected above their respective screening thresholds within the project area, and thus are not anticipated to pose an unacceptable health risk either by inhalation, ingestion, or dermal contact during planned excavation or construction activities. This conclusion is limited to the target compounds and depths at each of the 13 structures included in this PEA-E.

Soil sampling and step-out sampling analytical results indicated that arsenic, lead, and/or OCP concentrations exceeded the health-based screening levels at 27 surficial soil locations. Of the 27 areas, 17 were impacted with arsenic, 10 were impacted with lead, and 5 were impacted with OCPs (chlordane or dieldrin) above the screening levels. There were four locations where two or more compounds exceeded their respective screening levels.

The proposed San Pedro High School modernization project will disturb surficial soil at the 27 locations of concern, which could result in a pathway for exposure to students, faculty, or construction workers. Prior to construction, EnSafe recommends soil removal and confirmation sampling in the areas of concern. After confirmation samples are obtained that show COPCs below health screening levels for residential land use, no further action will be required.

Based on the areal dimensions and estimated depths, the 27 excavation areas represent an approximate in-situ volume of 226 cy of arsenic-, lead-, and OCP-impacted soil. Due to a loss of compaction after excavation, the in situ volume may increase and has adjusted by 50 percent to a total stockpile and disposal volume of 339 cy. The locations of utilities should be verified prior to soil disturbance and the excavation limits adjusted accordingly. The use of hand tools may be appropriate for excavations in proximity to buried utility lines.

A RAW should be prepared prior to demolition or construction activities that would disturb the areas of concern. The RAW should contain a description of the contamination, excavation dimensions, methodology, transportation and disposal, confirmation sampling plan, methods to ensure worker and public health and safety, and cleanup goals. Community notices should be distributed in accordance with LAUSD policy. A Removal Action Completion Report should be completed before continuing with the proposed modernization project.

## 10.2 Radon

Radon samples were collected from four locations including the Administration building, Classroom Building 1, Physical Education building, and Home Economics building. The radon testing locations and evaluation are independent of the soil testing activities. Radon testing results reported concentrations ranging from below the reporting limit of 0.2 pCi/L up to 3.9 pCi/L in the subject building. The highest radon concentration of 3.9 pCi/L was found in Room 231 of Classroom Building 1. The sample from the Cafeteria in the Home Economics building was flagged with a recommendation for additional testing, due to the doors being open at the time of the sample retrieval.

Radon sample results collected from the subject buildings were below the EPA action level of 4.0 pCi/L. However, previous testing provided by LAUSD showed elevated radon levels in Classroom Building 1 and retesting was recommended. Based on the previous results, and because the EnSafe testing was restricted to four buildings, LAUSD should consider additional testing and/or radon mitigation prior to the design and construction of the San Pedro High School modernization project. It is our understanding that modernization of four buildings will include upgrades to the HVAC. The results of radon testing may be used to evaluate whether radon concentrations can be mitigated through appropriate ventilation and air exchange rates.

## 11.0 REFERENCES

California Department of Public Health. California Indoor Radon Test Results. February 2016.

Clark Seif Clark. Phase I Environmental Site Assessment, San Pedro High School, 1001 W. 15th Street, San Pedro, California, 90731. June 7, 2016a.

— PEA Equivalent Work Plan. Soil and Radon Sampling Plan (Task 2), San Pedro High School, 1001 West 15th Street, San Pedro, California, 90731. June 22, 2016b.

California Regional Water Quality Control Board, Los Angeles And Ventura Counties, Region 4, Interim Site Assessment and Cleanup Guidebook. May 1996.

Department of Toxic Substances Control. Office of Human and Ecological Risk. Human Health Risk Assessment Note Number: 3. June 2016.

— Preliminary Endangerment Assessment Guidance Manual, Cal/EPA DTSC. January 1994 (Interim Final – Revised October 2013).

— Interim Guidance Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers, California Department of Toxic Substance Control (Cal-EPA DTSC). June 9, 2006.

— (accessed August 11, 2016). Determination of a Southern California Regional Background Arsenic Concentration in Soil. Retrieved from http://www.dtsc.ca.gov/upload/Background-Arsenic.pdf.

— Proposed Scope of Work for Preliminary Environmental Assessment Equivalent, San Pedro High School Comprehensive Modernization, San Pedro High School, 1001 West 15th Street, San Pedro, California. July 15, 2016.

— Proposed Scope of Work for Preliminary Environmental Assessment, Industrial Arts Building Replacement, San Pedro High School, 9229 Haskell Ave, Los Angeles, California. March 13, 2016b.

Los Angeles Unified School District Radon Zones (map). April 26, 2016a.

— Scope of Services, Preliminary Environmental Assessment Equivalent, San Pedro High School Comprehensive Modernization. July 8, 2016b.

Radon Testing Services. Radon Gas Survey — San Pedro High School, 1001 W. 15th Street, San Pedro, California 90731. August 12, 2016.

United States Environmental Protection Agency. Regions 3, 6, and 9. Regional Screening Levels for Chemical Contaminants at Superfund Sites. Retrieved from https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables-may-2016. May 2016.

United States Geological Survey. 7 1/2-Minute Topographic Map of Torrance Quadrangle, California. 2012.

# Figures




FIGURE 1
SITE LOCATION MAP
SAN PEDRO HIGH SCHOOL
1001 15TH STREET
SAN PEDRO, CALIFORNIA 90031

0 1,000 2,000
SCALE IN FEET
COORDINATE SYSTEM: NAD 1983
UTM ZONE 11

| | |
|---|---|
| REQUESTED BY: | TS |
| DRAWN BY: | CC |
| DATE: | 03/30/2017 |
| PROJECT: | 0888820335 |

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DATA SOURCES: U.S. Geological Survey. San Pedro, Torrance Quadrangle, California [Map]. Photorevised 2015. 1:24,000. 7.5 Minute Series.

I:\CAD PROJECTS\20335 LAUSD San Pedro CA\Plans\20335_C001_SITE LOCATION MAP _FIGURE 1_LAUSD_SAN PEDRO HIGH_CA.dwg 3/30/2017 9:28:30 AM




## LEGEND

| | | | |
|---|---|---|---|
| — — — | APPROXIMATE SUBJECT PROPERTY BOUNDARY | 7 | UNNAMED PORTABLE BUILDING |
| 1 | BUILDING AA-244 | 8 | SHOP BUILDING |
| 2 | BUILDING AA-347 | 9 | BUILDING AA-2082 |
| 3 | BUILDING AA-2384 | 10 | BUILDING BB-182 |
| 4 | BUILDING AA-2383 | 11 | UNNAMED CLASSROOM |
| 5 | LUNCH SHELTER | 12 | INDUSTRIAL ARTS BUILDING |
| 6 | FLAMMABLE STORAGE | 13 | GIRLS GYMNASIUM |

0 100 200

SCALE IN FEET

COORDINATE SYSTEM: NAD 1983
STATE PLANE CALIFORNIA ZONE 5 FEET

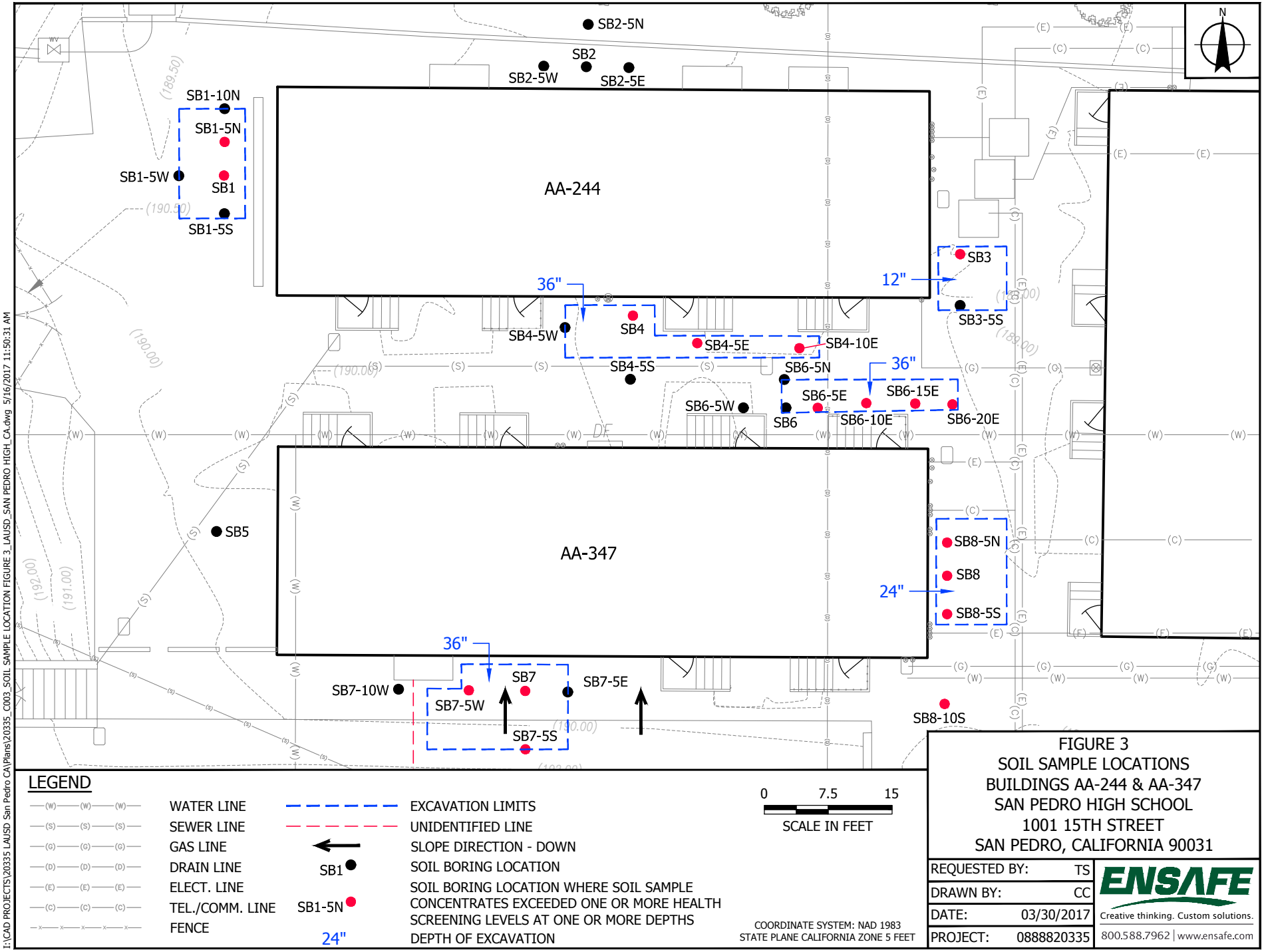
# FIGURE 2
# SOIL SAMPLING LAYOUT MAP
# SAN PEDRO HIGH SCHOOL
# 1001 15TH STREET
# SAN PEDRO, CALIFORNIA 90031

| | |
|---|---|
| REQUESTED BY: | TS |
| DRAWN BY: | CC |
| DATE: | 03/30/2017 |
| PROJECT: | 0888820335 |

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DATA SOURCES: USGS Image LAR-IAC Earthstar Geographis SIO Bing 2017

I:\CAD PROJECTS\20335 LAUSD San Pedro CA\Plans\20335_C002_SOIL SAMPLE LAYOUT MAP_FIGURE 2_LAUSD_SAN PEDRO HIGH_CA.dwg 5/11/2017 3:58:48 PM



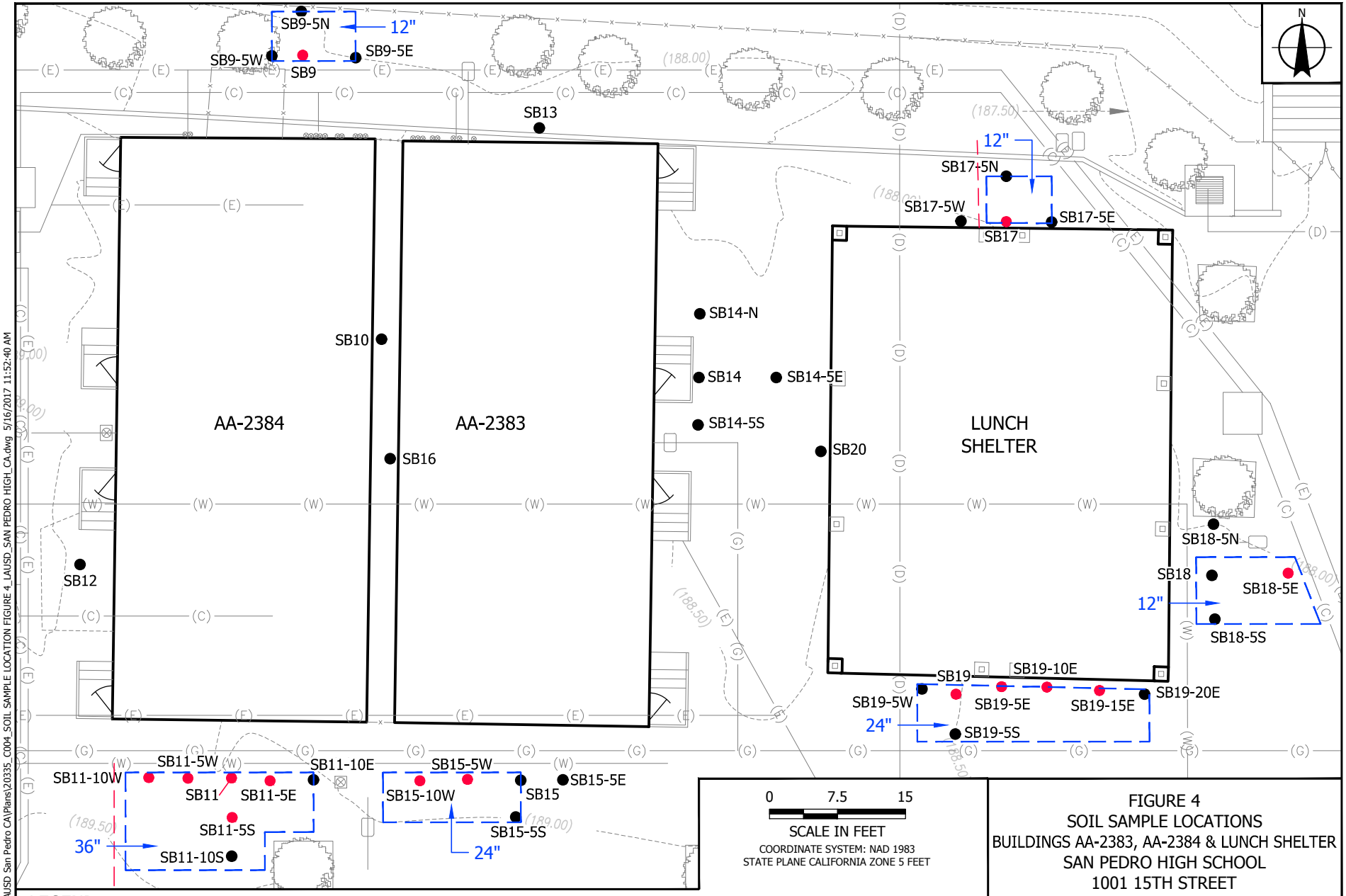

# FIGURE 3
## SOIL SAMPLE LOCATIONS
## BUILDINGS AA-244 & AA-347
## SAN PEDRO HIGH SCHOOL
## 1001 15TH STREET
## SAN PEDRO, CALIFORNIA 90031

| | |
|---|---|
| REQUESTED BY: | TS |
| DRAWN BY: | CC |
| DATE: | 03/30/2017 |
| PROJECT: | 0888820335 |

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DATA SOURCES: P.A. ARCA ENGINEERING, INC., 500 East Carson Plaza Drive, Suite 201, Carson California 90746

I:\CAD PROJECTS\20335 LAUSD San Pedro CA\Plans\20335_C003_SOIL SAMPLE LOCATION FIGURE 3_LAUSD_SAN PEDRO HIGH_CA.dwg 5/16/2017 11:50:31 AM




## LEGEND

- WATER LINE
- SEWER LINE
- GAS LINE
- DRAIN LINE
- ELECT. LINE
- TEL./COMM. LINE
- FENCE
- EXCAVATION LIMITS
- UNIDENTIFIED LINE
- SB9 — SOIL BORING LOCATION
- SB9 — SOIL BORING LOCATION WHERE SOIL SAMPLE CONCENTRATES EXCEEDED ONE OR MORE HEALTH SCREENING LEVELS AT ONE OR MORE DEPTHS
- 24" — DEPTH OF EXCAVATION

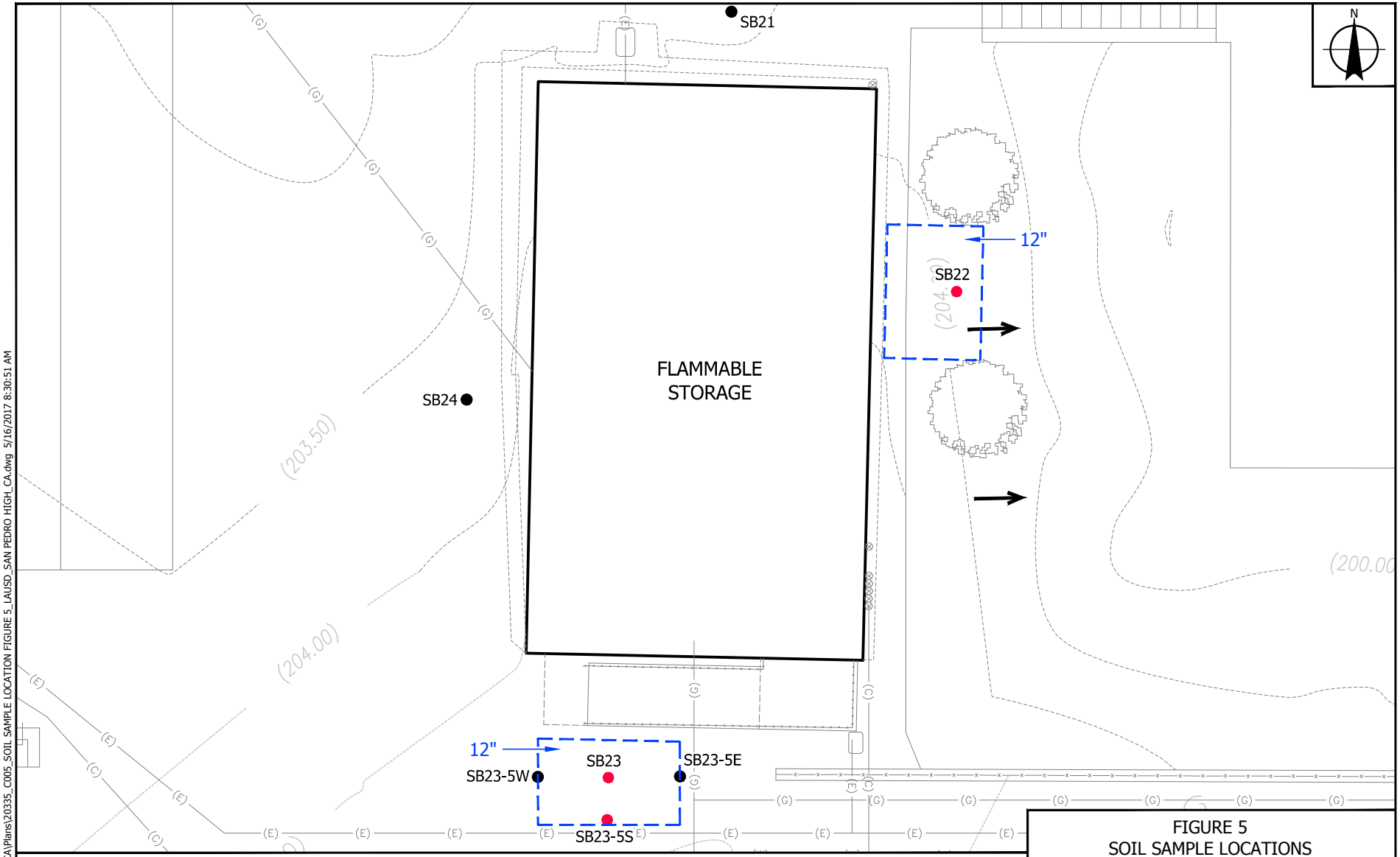
# FIGURE 4
## SOIL SAMPLE LOCATIONS
## BUILDINGS AA-2383, AA-2384 & LUNCH SHELTER
## SAN PEDRO HIGH SCHOOL
## 1001 15TH STREET
## SAN PEDRO, CALIFORNIA 90031

| | |
|---|---|
| REQUESTED BY: | TS |
| DRAWN BY: | CC |
| DATE: | 03/30/2017 |
| PROJECT: | 0888820335 |

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I:\CAD PROJECTS\20335 LAUSD San Pedro CA\Plans\20335_C004_SOIL SAMPLE LOCATION FIGURE 4_LAUSD_SAN PEDRO HIGH_CA.dwg 5/16/2017 11:52:40 AM




## LEGEND

- WATER LINE
- SEWER LINE
- GAS LINE
- DRAIN LINE
- ELECT. LINE
- TEL./COMM. LINE
- FENCE
- EXCAVATION LIMITS
- SLOPE DIRECTION - DOWN
- SB21 — SOIL BORING LOCATION
- SB22 — SOIL BORING LOCATION WHERE SOIL SAMPLE CONCENTRATES EXCEEDED ONE OR MORE HEALTH SCREENING LEVELS AT ONE OR MORE DEPTHS
- 12" — DEPTH OF EXCAVATION

0 5 10

SCALE IN FEET

COORDINATE SYSTEM: NAD 1983
STATE PLANE CALIFORNIA ZONE 5 FEET

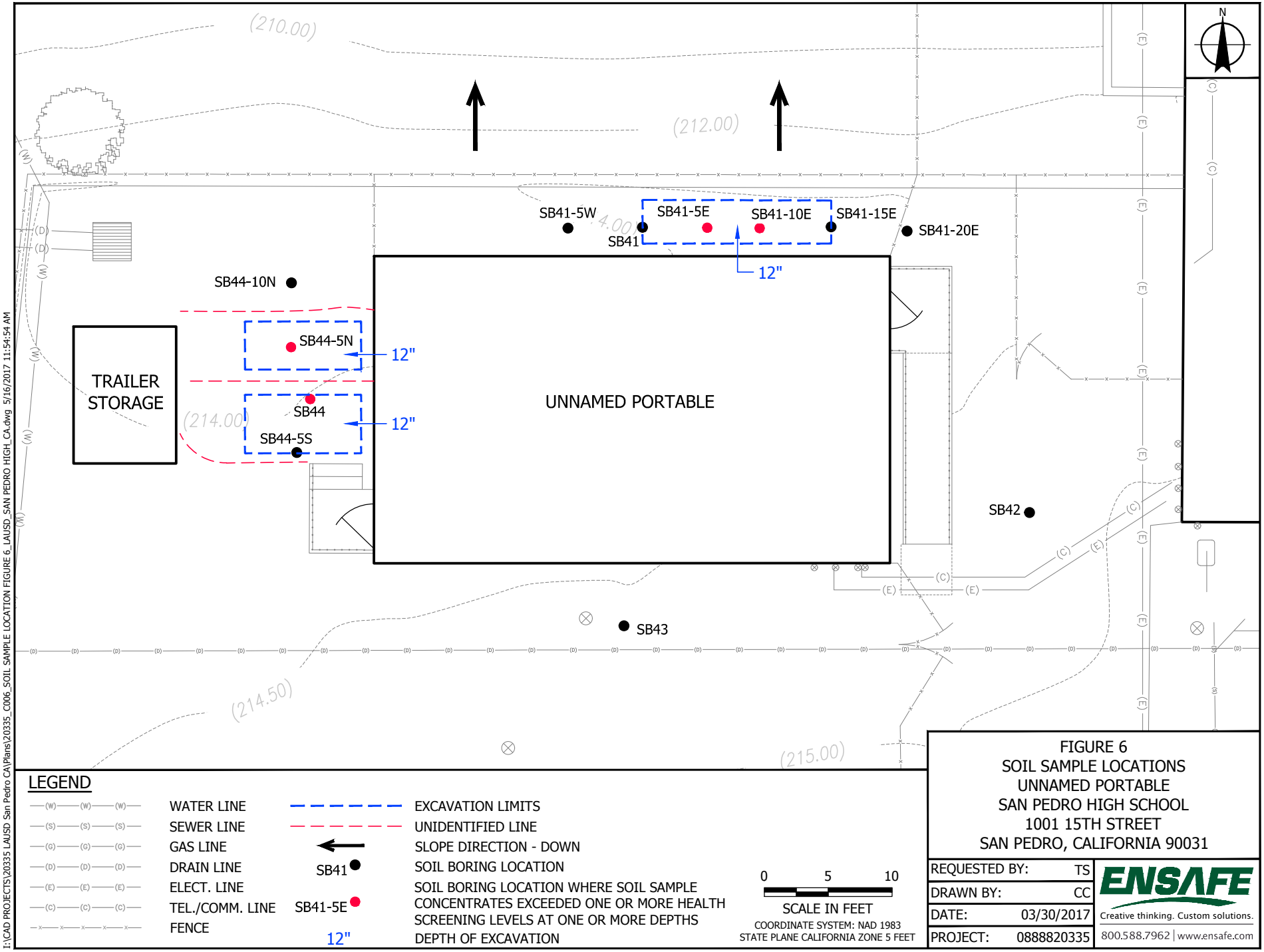
# FIGURE 5
# SOIL SAMPLE LOCATIONS
# FLAMMABLE STORAGE
# SAN PEDRO HIGH SCHOOL
# 1001 15TH STREET
# SAN PEDRO, CALIFORNIA 90031

| | |
|---|---|
| REQUESTED BY: | TS |
| DRAWN BY: | CC |
| DATE: | 03/30/2017 |
| PROJECT: | 0888820335 |

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I:\CAD PROJECTS\20335 LAUSD San Pedro CA\Plans\20335_C005_SOIL SAMPLE LOCATION FIGURE 5_LAUSD_SAN PEDRO HIGH_CA.dwg 5/16/2017 8:30:51 AM




## LEGEND

| | |
|---|---|
| WATER LINE | EXCAVATION LIMITS |
| SEWER LINE | UNIDENTIFIED LINE |
| GAS LINE | SLOPE DIRECTION - DOWN |
| DRAIN LINE | SB41 ● SOIL BORING LOCATION |
| ELECT. LINE | SOIL BORING LOCATION WHERE SOIL SAMPLE CONCENTRATES EXCEEDED ONE OR MORE HEALTH SCREENING LEVELS AT ONE OR MORE DEPTHS |
| TEL./COMM. LINE | SB41-5E ● |
| FENCE | 12" DEPTH OF EXCAVATION |

0 5 10

SCALE IN FEET

COORDINATE SYSTEM: NAD 1983
STATE PLANE CALIFORNIA ZONE 5 FEET

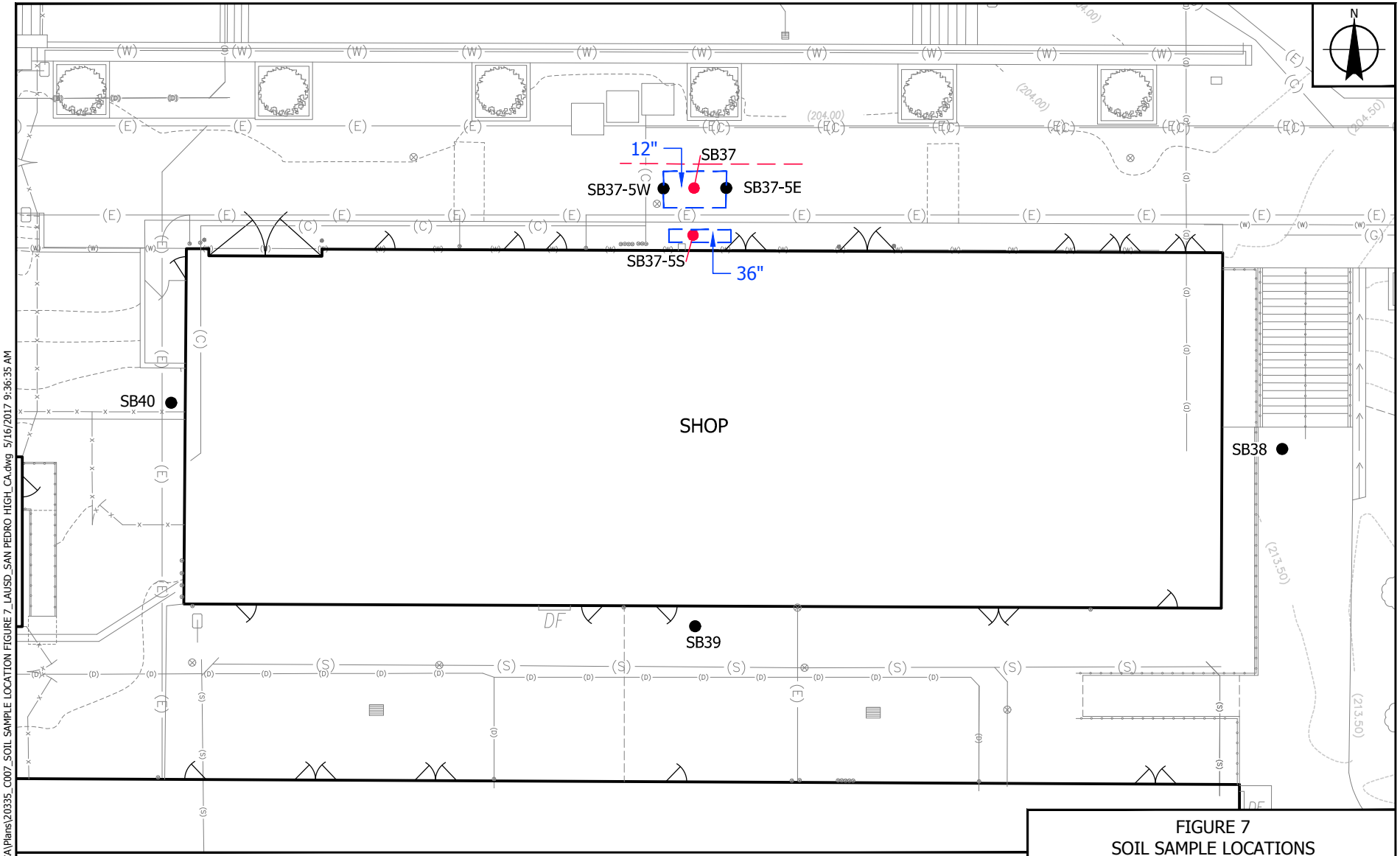
# FIGURE 6
## SOIL SAMPLE LOCATIONS
## UNNAMED PORTABLE
## SAN PEDRO HIGH SCHOOL
## 1001 15TH STREET
## SAN PEDRO, CALIFORNIA 90031

| | |
|---|---|
| REQUESTED BY: | TS |
| DRAWN BY: | CC |
| DATE: | 03/30/2017 |
| PROJECT: | 0888820335 |

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I:\CAD PROJECTS\20335 LAUSD San Pedro CA\Plans\20335_C006_SOIL SAMPLE LOCATION FIGURE 6_LAUSD_SAN PEDRO HIGH_CA.dwg 5/16/2017 11:54:54 AM




## LEGEND

| | |
|---|---|
| WATER LINE | EXCAVATION LIMITS |
| SEWER LINE | UNIDENTIFIED LINE |
| GAS LINE | SOIL BORING LOCATION |
| DRAIN LINE | SOIL BORING LOCATION WHERE SOIL SAMPLE CONCENTRATES EXCEEDED ONE OR MORE HEALTH SCREENING LEVELS AT ONE OR MORE DEPTHS |
| ELECT. LINE | |
| TEL./COMM. LINE | DEPTH OF EXCAVATION |
| FENCE | |

SCALE IN FEET: 0 10 20

COORDINATE SYSTEM: NAD 1983
STATE PLANE CALIFORNIA ZONE 5 FEET

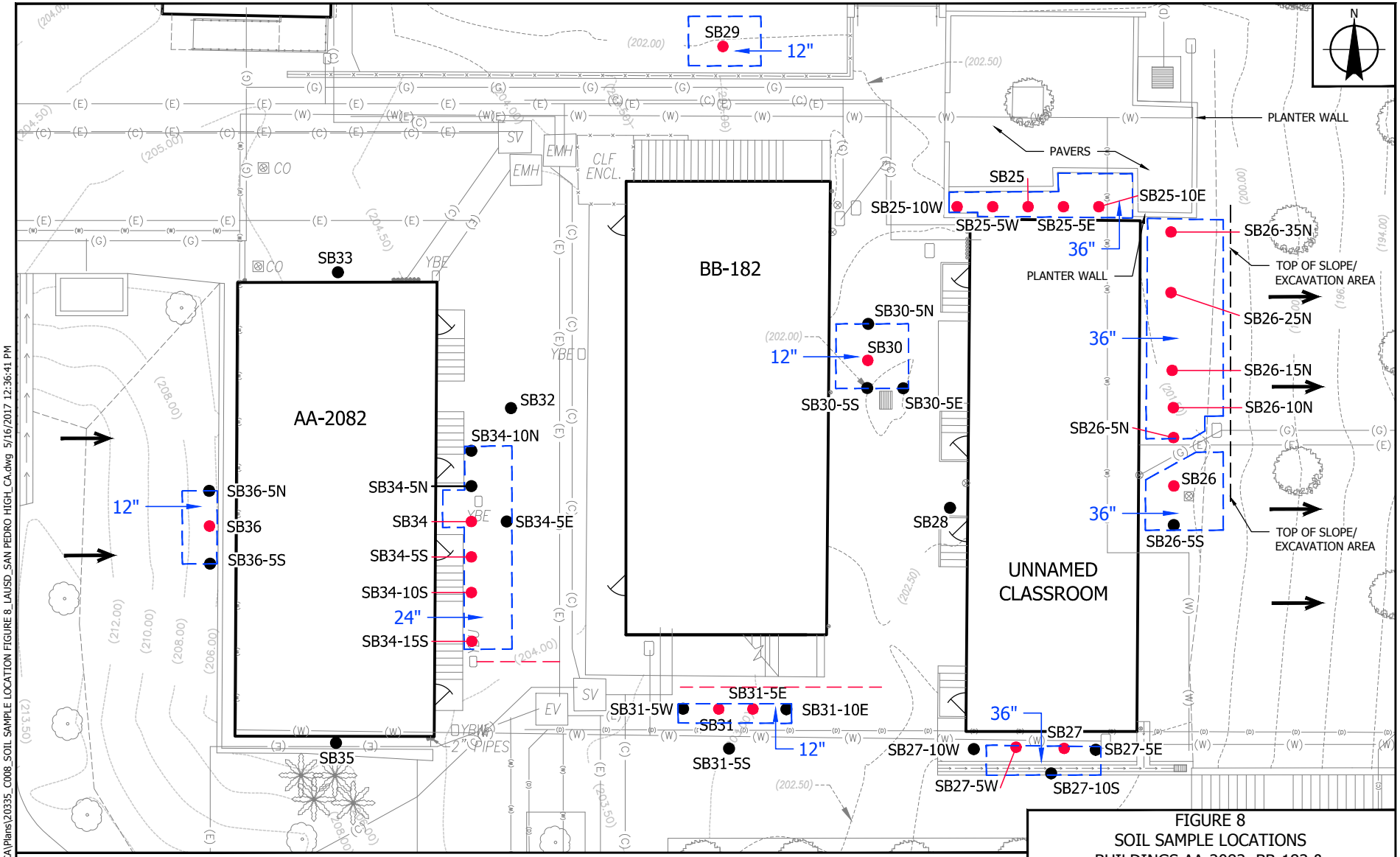
# FIGURE 7
# SOIL SAMPLE LOCATIONS
# SHOP
# SAN PEDRO HIGH SCHOOL
# 1001 15TH STREET
# SAN PEDRO, CALIFORNIA 90031

| | |
|---|---|
| REQUESTED BY: | TS |
| DRAWN BY: | CC |
| DATE: | 03/30/2017 |
| PROJECT: | 0888820335 |

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I:\CAD PROJECTS\20335 LAUSD San Pedro CA\Plans\20335_C007_SOIL SAMPLE LOCATION FIGURE 7_LAUSD_SAN PEDRO HIGH_CA.dwg 5/16/2017 9:36:35 AM




## LEGEND

- WATER LINE
- SEWER LINE
- GAS LINE
- DRAIN LINE
- ELECT. LINE
- TEL./COMM. LINE
- FENCE
- EXCAVATION LIMITS
- UNIDENTIFIED LINE
- SLOPE DIRECTION - DOWN
- SB32 — SOIL BORING LOCATION
- SB29 — SOIL BORING LOCATION WHERE SOIL SAMPLE CONCENTRATES EXCEEDED ONE OR MORE HEALTH SCREENING LEVELS AT ONE OR MORE DEPTHS
- 12" — DEPTH OF EXCAVATION

0 10 20

SCALE IN FEET

COORDINATE SYSTEM: NAD 1983
STATE PLANE CALIFORNIA ZONE 5 FEET

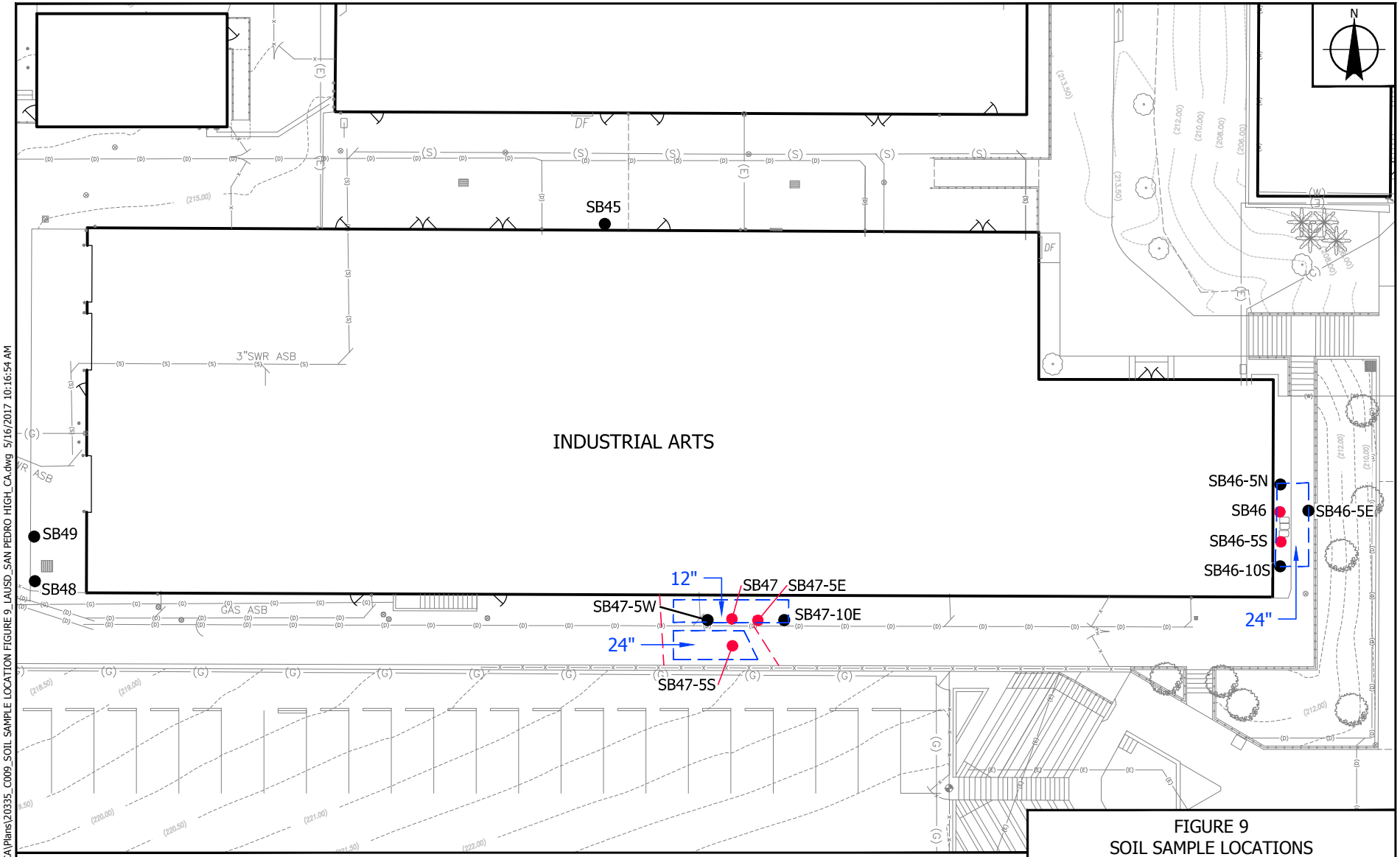
# FIGURE 8
## SOIL SAMPLE LOCATIONS
## BUILDINGS AA-2082, BB-182 & UNNAMED CLASSROOM
## SAN PEDRO HIGH SCHOOL
## 1001 15TH STREET
## SAN PEDRO, CALIFORNIA 90031

| | |
|---|---|
| REQUESTED BY: | TS |
| DRAWN BY: | CC |
| DATE: | 03/30/2017 |
| PROJECT: | 0888820335 |

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I:\CAD PROJECTS\20335 LAUSD San Pedro CA\Plans\20335_C008_SOIL SAMPLE LOCATION FIGURE 8_LAUSD_SAN PEDRO HIGH_CA.dwg 5/16/2017 12:36:41 PM




## LEGEND

| | |
|---|---|
| WATER LINE | EXCAVATION LIMITS |
| SEWER LINE | UNIDENTIFIED LINE |
| GAS LINE | SB45 ● SOIL BORING LOCATION |
| DRAIN LINE | |
| ELECT. LINE | SB46 ● SOIL BORING LOCATION WHERE SOIL SAMPLE CONCENTRATES EXCEEDED ONE OR MORE HEALTH SCREENING LEVELS AT ONE OR MORE DEPTHS |
| TEL./COMM. LINE | 12" DEPTH OF EXCAVATION |
| FENCE | |

0 15 30

SCALE IN FEET

COORDINATE SYSTEM: NAD 1983
STATE PLANE CALIFORNIA ZONE 5 FEET

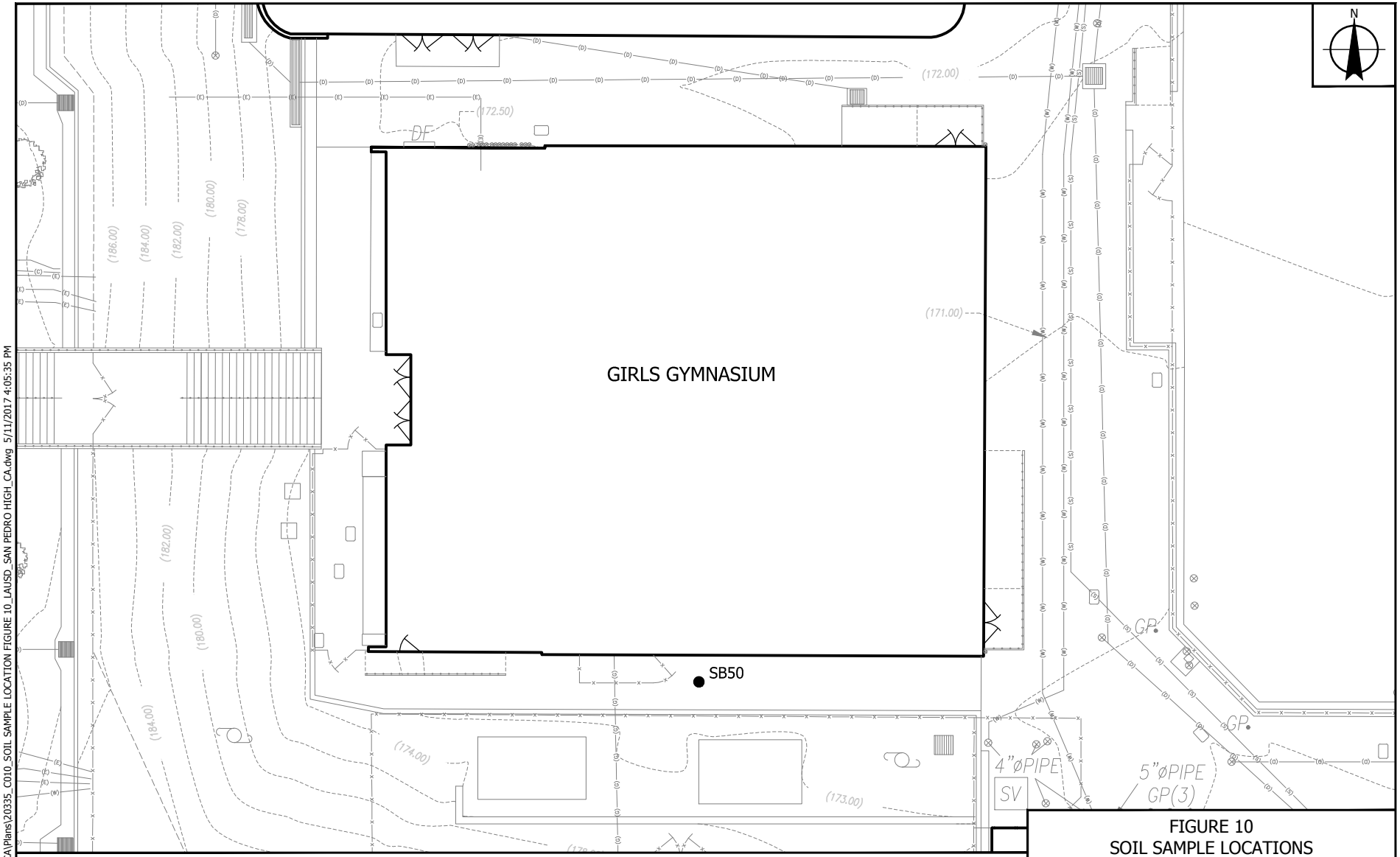
# FIGURE 9
# SOIL SAMPLE LOCATIONS
# INDUSTRIAL ARTS
# SAN PEDRO HIGH SCHOOL
# 1001 15TH STREET
# SAN PEDRO, CALIFORNIA 90031

| | |
|---|---|
| REQUESTED BY: | TS |
| DRAWN BY: | CC |
| DATE: | 03/30/2017 |
| PROJECT: | 0888820335 |

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I:\CAD PROJECTS\20335 LAUSD San Pedro CA\Plans\20335_C009_SOIL SAMPLE LOCATION FIGURE 9_LAUSD_SAN PEDRO HIGH_CA.dwg 5/16/2017 10:16:54 AM




## LEGEND

- WATER LINE
- SEWER LINE
- GAS LINE
- DRAIN LINE
- ELECT. LINE
- TEL./COMM. LINE
- FENCE

SB1 ● SOIL BORING LOCATION

0 10 20

SCALE IN FEET

COORDINATE SYSTEM: NAD 1983
STATE PLANE CALIFORNIA ZONE 5 FEET

# FIGURE 10
# SOIL SAMPLE LOCATIONS
# GIRLS GYMNASIUM
# SAN PEDRO HIGH SCHOOL
# 1001 15TH STREET
# SAN PEDRO, CALIFORNIA 90031

| | |
|---|---|
| REQUESTED BY: | TS |
| DRAWN BY: | CC |
| DATE: | 03/30/2017 |
| PROJECT: | 0888820335 |

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DATA SOURCES: P.A. ARCA ENGINEERING, INC., 500 East Carson Plaza Drive, Suite 201, Carson California 90746

I:\CAD PROJECTS\20335 LAUSD San Pedro CA\Plans\20335_C010_SOIL SAMPLE LOCATION FIGURE 10_LAUSD_SAN PEDRO HIGH_CA.dwg 5/11/2017 4:05:35 PM




## LEGEND

- APPROXIMATE SUBJECT PROPERTY BOUNDARY
- 1 ADMINISTRATION BUILDING
- 2 CLASSROOM BUILDING 1
- 3 PHYSICAL EDUCATION BUILDING
- 4 HOME ECONOMICS BUILDING
- 5 CLASSROOM BUILDING 2/SCIENCE (TESTED BY OTHERS)

0 100 200

SCALE IN FEET

COORDINATE SYSTEM: NAD 1983
STATE PLANE CALIFORNIA ZONE 5 FEET

# FIGURE 11
# RADON SAMPLING LAYOUT MAP
# SAN PEDRO HIGH SCHOOL
# 1001 15TH STREET
# SAN PEDRO, CALIFORNIA 90031

| | |
|---|---|
| REQUESTED BY: | TS |
| DRAWN BY: | CC |
| DATE: | 03/30/2017 |
| PROJECT: | 0888820335 |

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DATA SOURCES: USGS Image LAR-IAC Earthstar Geographis SIO Bing 2017

I:\CAD PROJECTS\20335 LAUSD San Pedro CA\Plans\20335_C011_RADON SAMPLING LAYOUT MAP_FIGURE 11_LAUSD_SAN PEDRO HIGH_CA.dwg 5/11/2017 4:16:36 PM

# Tables

**Table 1**
**Summary of Arsenic and Lead in Soil Samples**
**Test Method EPA 6010B**
**San Pedro High School**
**1001 W. 15th St., San Pedro, CA**

| Location | Field Sample ID | Depth (feet bgs) | Date | Title 22 Metals (mg/kg) | |
|---|---|---|---|---|---|
| | | | | Arsenic | Lead |
| | | | | 7440-38-2 | 7439-92-1 |
| **AA-244 (Portable)** | | | | | |
| SB1 | SB1-00 | 0 | 08/01/2016 | **14** | **10** |
| | SB1-12 | 12 | 08/01/2016 | **28** | NA |
| | SB1-24 | 24 | 08/01/2016 | **4.7** | NA |
| | SB1-5N-00 | 0 | 09/25/2016 | **15** | NA |
| | SB1-5N-12 | 12 | 09/25/2016 | **10** | NA |
| | SB1-10N-00 | 0 | 09/25/2016 | **9.0** | NA |
| | SB1-5S-00 | 0 | 09/25/2016 | **7.5** | NA |
| | SB1-5S-12 | 12 | 09/25/2016 | **10** | NA |
| | SB1-5W-00 | 0 | 09/25/2016 | **10** | NA |
| | SB1-5W-12 | 12 | 09/25/2016 | **7.3** | NA |
| SB2 | SB2-00 | 0 | 08/03/2016 | **12** | **59** |
| | SB2-12 | 12 | 08/03/2016 | **8.1** | NA |
| | SB2-5E-00 | 0 | 10/01/2016 | **6.1** | NA |
| | SB2-5N-00 | 0 | 10/01/2016 | **8.7** | NA |
| | SB2-5W-00 | 0 | 10/01/2016 | **3.3** | NA |
| SB3 | SB3-00 | 0 | 08/03/2016 | **11** | **110** |
| | SB3-12 | 12 | 08/03/2016 | NA | **7.9** |
| | SB3-5S-00 | 0 | 10/01/2016 | NA | **66** |
| SB4 | SB4-00 | 0 | 08/02/2016 | **26** | **4.4** |
| | SB4-5E-00 | 0 | 09/25/2016 | **14** | NA |
| | SB4-5E-12 | 12 | 09/25/2016 | **20** | NA |
| | SB4-5E-24 | 24 | 09/25/2016 | **20** | NA |
| | SB4-10E-00 | 0 | 09/25/2016 | **7.5** | NA |
| | SB4-10E-12 | 12 | 09/25/2016 | **13** | NA |
| | SB4-10E-24 | 24 | 09/25/2016 | **21** | NA |
| | SB4-5S-00 | 0 | 09/25/2016 | **11** | NA |
| | SB4-5W-00 | 0 | 09/25/2016 | **9.6** | NA |
| **AA-347 (Portable)** | | | | | |
| SB5 | SB5-00 | 0 | 08/02/2016 | **9.2** | **5.9** |
| SB6 | SB6-00 | 0 | 08/02/2016 | **12** | **4.2** |
| | SB6-12 | 12 | 08/02/2016 | **9.0** | NA |
| | SB6-5E-00 | 0 | 09/25/2016 | **14** | NA |
| | SB6-5E-12 | 12 | 09/25/2016 | **14** | NA |
| | SB6-5E-24 | 24 | 09/25/2016 | **15** | NA |
| | SB6-10E-00 | 0 | 09/25/2016 | **15** | NA |

**Table 1**
**Summary of Arsenic and Lead in Soil Samples**
**Test Method EPA 6010B**
**San Pedro High School**
**1001 W. 15th St., San Pedro, CA**

| Location | Field Sample ID | Depth (feet bgs) | Date | Title 22 Metals (mg/kg) | |
|---|---|---|---|---|---|
| | | | | Arsenic | Lead |
| | | | | 7440-38-2 | 7439-92-1 |
| SB6 (continued) | SB6-15E-00 | 0 | 03/25/2017 | **6.8** | NA |
| | D32517-DUP1 | 0 | 03/25/2017 | **6.3** | NA |
| | SB6-15E-12 | 12 | 03/25/2017 | **13** | NA |
| | SB6-15E-24 | 24 | 03/25/2017 | **10** | NA |
| | SB6-20E-00 | 0 | 03/25/2017 | **10** | NA |
| | SB6-20E-12 | 12 | 03/25/2017 | **14** | NA |
| | SB6-5N-00 | 0 | 09/25/2016 | **12** | NA |
| | SB6-5W-00 | 0 | 09/25/2016 | **7.0** | NA |
| SB7 | SB7-00 | 0 | 08/03/2016 | **12** | **94** |
| | SB7-12 | 12 | 08/03/2016 | **8.9** | **15** |
| | SB7-5E-00 | 0 | 10/01/2016 | **12** | **5.8** |
| | SB7-5S-00 | 0 | 10/01/2016 | **9.3** | **250** |
| | SB7-5S-12 | 12 | 10/01/2016 | NA | **110** |
| | SB7-5S-24 | 24 | 10/01/2016 | NA | **13** |
| | SB7-5W-00 | 0 | 10/01/2016 | **12** | **220** |
| | SB7-5W-12 | 12 | 10/01/2016 | NA | **7.2** |
| | SB7-10W-00 | 0 | 10/01/2016 | NA | **13** |
| SB8 | SB8-00 | 0 | 08/03/2016 | **18** | **11** |
| | SB8-12 | 12 | 08/03/2016 | **10** | NA |
| | SB8-5N-00 | 0 | 10/01/2016 | **16** | NA |
| | SB8-5N-12 | 12 | 10/01/2016 | **16** | NA |
| | SB8-5S-00 | 0 | 10/01/2016 | **17** | NA |
| | SB8-5S-12 | 12 | 10/01/2016 | **17** | NA |
| | SB8-10S-00 | 0 | 10/01/2016 | **16** | NA |
| **AA-2384 (Portable)** | | | | | |
| SB9 | SB9-00 | 0 | 08/02/2016 | **12** | **170** |
| | SB9-12 | 12 | 08/02/2016 | **11** | **7.4** |
| | SB9-5E-00 | 0 | 10/02/2016 | **11** | **31** |
| | SB9-5N-00 | 0 | 10/02/2016 | **11** | **28** |
| | SB9-5W-00 | 0 | 10/02/2016 | **7.5** | **44** |
| SB10 | SB10-00 | 0 | 08/03/2016 | **11** | **7.6** |
| SB11 | SB11-00 | 0 | 08/03/2016 | **20** | **26** |
| | SB11-12 | 12 | 08/03/2016 | **17** | NA |
| | SB11-24 | 24 | 08/03/2016 | **13** | NA |
| | SB11-5E-00 | 0 | 10/01/2016 | **25** | NA |
| | SB11-5E-12 | 12 | 10/01/2016 | **19** | NA |
| | SB11-5E-24 | 24 | 10/01/2016 | **18** | NA |

**Table 1**
**Summary of Arsenic and Lead in Soil Samples**
**Test Method EPA 6010B**
**San Pedro High School**
**1001 W. 15th St., San Pedro, CA**

| Location | Field Sample ID | Depth (feet bgs) | Date | Title 22 Metals (mg/kg) | |
|---|---|---|---|---|---|
| | | | | Arsenic | Lead |
| | | | | 7440-38-2 | 7439-92-1 |
| SB11 (continued) | SB11-10E-00 | 0 | 10/01/2016 | **10** | NA |
| | SB11-5S-00 | 0 | 10/01/2016 | **5.4** | NA |
| | SB11-5S-12 | 12 | 10/01/2016 | **25** | NA |
| | SB11-5S-24 | 24 | 10/01/2016 | **16** | NA |
| | SB11-10S-00 | 0 | 10/01/2016 | **11** | NA |
| | SB11-5W-00 | 0 | 10/01/2016 | **11** | NA |
| | SB11-5W-12 | 12 | 10/01/2016 | **20** | NA |
| | SB11-5W-24 | 24 | 10/01/2016 | **20** | NA |
| | SB11-10W-00 | 0 | 10/01/2016 | **18** | NA |
| | DUP3A-100116 | 0 | 10/01/2016 | **11** | NA |
| | SB11-10W-12 | 12 | 10/01/2016 | **15** | NA |
| | SB11-10W-24 | 24 | 10/01/2016 | **17** | NA |
| SB12 | SB12-00 | 0 | 08/03/2016 | **8.4** | **9.9** |
| **AA-2383 (Portable)** | | | | | |
| SB13 | SB13-00 | 0 | 08/02/2016 | **5.7** | **46** |
| SB14 | SB14-00 | 0 | 08/03/2016 | **12** | **8.1** |
| | SB14-5E-00 | 0 | 10/02/2016 | **12** | NA |
| | SB14-5E-00 | 0 | 10/02/2016 | **12** | NA |
| | SB14-5N-00 | 0 | 10/02/2016 | **12** | NA |
| | SB14-5S-00 | 0 | 10/02/2016 | **11** | NA |
| SB15 | SB15-00 | 0 | 08/03/2016 | **12** | **15** |
| | SB15-12 | 12 | 08/03/2016 | **9.9** | NA |
| | SB15-5E-00 | 0 | 10/01/2016 | **12** | NA |
| | SB15-5S-00 | 0 | 10/01/2016 | **12** | NA |
| | SB15-5W-00 | 0 | 10/01/2016 | **26** | NA |
| | SB15-5W-12 | 12 | 10/01/2016 | **16** | NA |
| | SB15-5W-24 | 24 | 10/01/2016 | **12** | NA |
| | SB15-10W-00 | 0 | 10/01/2016 | **13** | NA |
| SB16 | SB16-00 | 0 | 08/03/2016 | **9.2** | **14** |
| **Lunch Shelter** | | | | | |
| SB17 | SB17-00 | 0 | 08/03/2016 | **11** | **110** |
| | SB17-12 | 12 | 08/03/2016 | NA | **4.6** |
| | SB17-5N-00 | 0 | 10/01/2016 | NA | **17** |
| | SB17-5E-00 | 0 | 10/01/2016 | NA | **5.6** |
| | SB17-5W-00 | 0 | 10/01/2016 | NA | **40** |

**Table 1**
**Summary of Arsenic and Lead in Soil Samples**
**Test Method EPA 6010B**
**San Pedro High School**
**1001 W. 15th St., San Pedro, CA**

| Location | Field Sample ID | Depth (feet bgs) | Date | Title 22 Metals (mg/kg) | |
|---|---|---|---|---|---|
| | | | | Arsenic | Lead |
| | | | | 7440-38-2 | 7439-92-1 |
| SB18 | SB18-00 | 0 | 08/03/2016 | **12** | **13** |
| | SB18-12 | 12 | 08/03/2016 | **5.2** | NA |
| | SB18-5E-00 | 0 | 10/02/2016 | **18** | NA |
| | SB18-5E-12 | 12 | 10/02/2016 | **6.3** | NA |
| | SB18-5N-00 | 0 | 10/02/2016 | **9.9** | NA |
| | SB18-5S-00 | 0 | 10/02/2016 | **7.7** | NA |
| SB19 | SB19-00 | 0 | 08/03/2016 | **15** | **5.5** |
| | SB19-12 | 12 | 08/03/2016 | **7.5** | NA |
| | SB19-5E-00 | 0 | 10/01/2016 | **14** | NA |
| | SB19-5E-12 | 12 | 10/01/2016 | **12** | NA |
| | SB19-10E-00 | 0 | 10/01/2016 | **15** | NA |
| | SB19-10E-12 | 12 | 10/01/2016 | **11** | NA |
| | SB19-15E-00 | 0 | 03/25/2017 | **10** | NA |
| | D32517-DUP2 | 0 | 03/25/2017 | **7.6** | NA |
| | SB19-15E-12 | 12 | 03/25/2017 | **13** | NA |
| | SB19-15E-24 | 24 | 03/25/2017 | **8.1** | NA |
| | SB19-20E-00 | 0 | 03/25/2017 | **7.4** | NA |
| | SB19-20E-12 | 12 | 03/25/2017 | **8.5** | NA |
| | SB19-20E-24 | 24 | 03/25/2017 | **7.8** | NA |
| | SB19-5S-00 | 0 | 10/01/2016 | ND (<2.0) | NA |
| | SB19-5W-00 | 0 | 10/01/2016 | **12** | **22** |
| SB20 | SB20-00 | 0 | 08/03/2016 | **8.7** | **23** |
| **Flammable Storage** | | | | | |
| SB21 | SB21-00 | 0 | 08/01/2016 | **9.3** | **9.4** |
| SB22 | SB22-00 | 0 | 08/01/2016 | **13** | **46** |
| | SB22-12 | 12 | 08/01/2016 | **2.6** | NA |
| SB23 | SB23-00 | 0 | 08/01/2016 | **6.1** | **230** |
| | SB23-12 | 12 | 08/01/2016 | NA | **5.5** |
| | SB23-5E-00 | 0 | 09/25/2016 | NA | **3.3** |
| | SB23-5S-00 | 0 | 09/25/2016 | NA | **110** |
| | SB23-5S-12 | 12 | 09/25/2016 | NA | **10** |
| | SB23-5W-00 | 0 | 09/25/2016 | NA | **4.0** |
| SB24 | SB24-00 | 0 | 08/01/2016 | **1.4** | **2.7** |

**Table 1**
**Summary of Arsenic and Lead in Soil Samples**
**Test Method EPA 6010B**
**San Pedro High School**
**1001 W. 15th St., San Pedro, CA**

| Location | Field Sample ID | Depth (feet bgs) | Date | Title 22 Metals (mg/kg) | |
|---|---|---|---|---|---|
| | | | | Arsenic | Lead |
| | | | | 7440-38-2 | 7439-92-1 |
| **Unnamed Classroom** | | | | | |
| SB25 | SB25-00 | 0 | 08/02/2016 | **20** | **78** |
| | SB25-12 | 12 | 08/02/2016 | **17** | NA |
| | SB25-24 | 24 | 08/02/2016 | **20** | NA |
| | SB25-5E-00 | 0 | 09/24/2016 | **11** | NA |
| | SB25-5E-12 | 12 | 09/24/2016 | **18** | NA |
| | SB25-10E-00 | 0 | 09/24/2016 | **16** | NA |
| | SB25-10E-12 | 12 | 09/24/2016 | **19** | NA |
| | SB25-10E-24 | 24 | 09/24/2016 | **14** | NA |
| | SB25-5W-00 | 0 | 09/24/2016 | **11** | NA |
| | SB25-5W-12 | 12 | 09/24/2016 | **33** | NA |
| | SB25-5W-24 | 24 | 09/24/2016 | **35** | NA |
| | SB25-10W-00 | 0 | 09/24/2016 | **19** | NA |
| | SB25-10W-12 | 12 | 09/24/2016 | **27** | NA |
| | SB25-10W-24 | 24 | 09/24/2016 | **13** | NA |
| SB26 | SB26-00 | 0 | 08/02/2016 | **14** | **190** |
| | SB26-12 | 12 | 08/02/2016 | **3.0** | **6.4** |
| | SB26-5N-00 | 0 | 09/24/2016 | **16** | **100** |
| | SB26-5N-12 | 12 | 09/24/2016 | **8.5** | **2.3** |
| | SB26-10N-00 | 0 | 09/24/2016 | **16** | **51** |
| | SB26-15N-00 | 0 | 03/25/2017 | **15** | NA |
| | D32517-DUP3 | 0 | 03/25/2017 | **15** | NA |
| | SB26-15N-12 | 12 | 03/25/2017 | **8.6** | NA |
| | SB26-15N-24 | 24 | 03/25/2017 | **1.6** | NA |
| | SB26-25N-00 | 0 | 03/25/2017 | **14** | NA |
| | SB26-25N-12 | 12 | 03/25/2017 | **17** | NA |
| | SB26-25N-24 | 24 | 03/25/2017 | **1.1** | NA |
| | SB26-35N-00 | 0 | 03/25/2017 | **13** | NA |
| | SB26-35N-12 | 12 | 03/25/2017 | **24** | NA |
| | SB26-35N-24 | 24 | 03/25/2017 | **1.9** | NA |
| | SB26-5S-00 | 0 | 09/24/2016 | **8.2** | **30** |
| SB27 | SB27-00 | 0 | 08/02/2016 | **45** | **10** |
| | SB27-12 | 12 | 08/02/2016 | **30** | NA |
| | SB27-24 | 24 | 08/02/2016 | **21** | NA |
| | SB27-5E-00 | 0 | 09/24/2016 | **8.7** | NA |
| | DUP2A-092416 | 0 | 09/24/2016 | **6.0** | NA |
| | SB27-5E-12 | 12 | 09/24/2016 | **6.3** | NA |

**Table 1**
**Summary of Arsenic and Lead in Soil Samples**
**Test Method EPA 6010B**
**San Pedro High School**
**1001 W. 15th St., San Pedro, CA**

| Location | Field Sample ID | Depth (feet bgs) | Date | Title 22 Metals (mg/kg) | |
|---|---|---|---|---|---|
| | | | | Arsenic | Lead |
| | | | | 7440-38-2 | 7439-92-1 |
| SB27 (continued) | SB27-5E-24 | 24 | 09/24/2016 | **8.2** | NA |
| | SB27-10S-00 | 0 | 09/24/2016 | **6.6** | NA |
| | SB27-5W-00 | 0 | 09/24/2016 | **14** | NA |
| | SB27-5W-12 | 12 | 09/24/2016 | **16** | NA |
| | SB27-5W-24 | 24 | 09/24/2016 | **15** | NA |
| | SB27-10W-00 | 0 | 09/24/2016 | **8.4** | NA |
| | SB27-10W-12 | 12 | 09/24/2016 | **8.9** | NA |
| SB28 | SB28-00 | 0 | 08/02/2016 | **8.0** | **60** |
| **BB-182 (Portable)** | | | | | |
| SB29 | SB29-00 | 0 | 08/01/2016 | **9.0** | **28** |
| SB30 | SB30-00 | 0 | 08/02/2016 | **5.0** | **44** |
| SB31 | SB31-00 | 0 | 08/02/2016 | **6.6** | **82** |
| | SB31-12 | 12 | 08/02/2016 | NA | **23** |
| | SB31-5E-00 | 0 | 09/24/2016 | NA | **130** |
| | SB31-5E-12 | 12 | 09/24/2016 | NA | **5.8** |
| | SB31-10E-00 | 0 | 09/24/2016 | NA | **46** |
| | SB31-5S-00 | 0 | 09/24/2016 | NA | **14** |
| | SB31-5W-00 | 0 | 09/24/2016 | NA | **21** |
| SB32 | SB32-00 | 0 | 08/01/2016 | **4.4** | **31** |
| **AA-2082 (Portable)** | | | | | |
| SB33 | SB33-00 | 0 | 08/02/2016 | **7.0** | **5.6** |
| SB34 | SB34-00 | 0 | 08/01/2016 | **7.1** | **110** |
| | SB34-12 | 12 | 08/01/2016 | NA | **13** |
| | SB34-5N-00 | 0 | 09/24/2016 | NA | **77** |
| | SB34-5E-00 | 0 | 09/24/2016 | NA | **26** |
| | SB34-5S-00 | 0 | 09/24/2016 | NA | **200** |
| | SB34-5S-12 | 12 | 09/24/2016 | NA | **17** |
| | SB34-10S-00 | 0 | 09/24/2016 | NA | **150** |
| | SB34-10S-12 | 12 | 09/24/2016 | NA | **92** |
| | SB34-10S-24 | 24 | 09/24/2016 | NA | **15** |
| | SB34-15S-00 | 0 | 03/25/2017 | NA | **140** |
| | D32517-DUP4 | 0 | 03/25/2017 | NA | **120** |
| | SB34-15S-12 | 12 | 03/25/2017 | NA | **6.7** |
| | SB34-15S-24 | 24 | 03/25/2017 | NA | **40** |
| SB35 | SB35-00 | 0 | 08/01/2016 | **5.9** | **35** |

**Table 1**
**Summary of Arsenic and Lead in Soil Samples**
**Test Method EPA 6010B**
**San Pedro High School**
**1001 W. 15th St., San Pedro, CA**

| Location | Field Sample ID | Depth (feet bgs) | Date | Title 22 Metals (mg/kg) | |
|---|---|---|---|---|---|
| | | | | Arsenic | Lead |
| | | | | 7440-38-2 | 7439-92-1 |
| SB36 | SB36-00 | 0 | 08/01/2016 | **0.75** | **190** |
| | SB36-12 | 12 | 08/01/2016 | NA | **53** |
| | SB36-5N-00 | 0 | 09/24/2016 | NA | **40** |
| | SB36-5S-00 | 0 | 09/24/2016 | NA | **29** |
| **Shop** | | | | | |
| SB37 | SB37-00 | 0 | 08/01/2016 | **17** | **17** |
| | SB37-12 | 12 | 08/01/2016 | **4.4** | NA |
| | SB37-5E-00 | 0 | 10/01/2016 | **6.7** | NA |
| | DUP1A-100116 | 0 | 10/01/2016 | **2.5** | NA |
| | SB37-5S-00 | 0 | 10/01/2016 | **16** | NA |
| | SB37-5S-12 | 12 | 10/01/2016 | **36** | NA |
| | SB37-5S-24 | 0 | 10/01/2016 | **59** | NA |
| | SB37-5W-00 | 0 | 10/01/2016 | **3.8** | NA |
| SB38 | SB38-00 | 0 | 08/02/2016 | **6.6** | **44** |
| SB39 | SB39-00 | 0 | 08/02/2016 | **4.7** | **21** |
| SB40 | SB40-00 | 0 | 08/02/2016 | **7.6** | **13** |
| **Unnamed Portable** | | | | | |
| SB41 | SB41-00 | 0 | 08/02/2016 | **12** | **13** |
| | SB41-12 | 12 | 08/02/2016 | **8.0** | NA |
| | SB41-5E-00 | 0 | 09/25/2016 | **14** | NA |
| | SB41-5E-12 | 12 | 09/25/2016 | **11** | NA |
| | SB41-10E-00 | 0 | 09/25/2016 | **15** | NA |
| | SB41-10E-12 | 0 | 09/25/2016 | **9.9** | NA |
| | SB41-15E-00 | 0 | 03/25/2017 | **11** | NA |
| | SB41-15E-12 | 12 | 03/25/2017 | **7.0** | NA |
| | SB41-15E-24 | 24 | 03/25/2017 | **7.7** | NA |
| | SB41-20E-00 | 0 | 03/25/2017 | **6.8** | NA |
| | SB41-20E-12 | 12 | 03/25/2017 | **7.1** | NA |
| | SB41-20E-24 | 24 | 03/25/2017 | **6.8** | NA |
| | SB41-5W-00 | 0 | 09/25/2016 | **9.9** | NA |
| SB42 | SB42-00 | 0 | 08/02/2016 | **3.9** | **4.0** |
| SB43 | SB43-00 | 0 | 08/02/2016 | **9.6** | **7.1** |
| SB44 | SB44-00 | 0 | 08/02/2016 | **17** | **11** |
| | SB44-12 | 12 | 08/02/2016 | **8.2** | NA |
| | SB44-5N-00 | 0 | 09/25/2016 | **14** | NA |
| | SB44-5N-12 | 12 | 09/25/2016 | **8.5** | NA |
| | SB44-10N-00 | 0 | 09/25/2016 | **11** | NA |

**Table 1**
**Summary of Arsenic and Lead in Soil Samples**
**Test Method EPA 6010B**
**San Pedro High School**
**1001 W. 15th St., San Pedro, CA**

| Location | Field Sample ID | Depth (feet bgs) | Date | Title 22 Metals (mg/kg) | |
|---|---|---|---|---|---|
| | | | | Arsenic | Lead |
| | | | | 7440-38-2 | 7439-92-1 |
| | SB44-5S-00 | 0 | 09/25/2016 | **12** | NA |
| **Industrial Arts** | | | | | |
| SB45 | SB45-00 | 0 | 08/02/2016 | **4.3** | **4.9** |
| SB46 | SB46-00 | 0 | 08/02/2016 | **23** | **180** |
| | SB46-12 | 12 | 08/02/2016 | **7.2** | **80** |
| | SB46-24 | 24 | 08/02/2016 | NA | **5.6** |
| | SB46-5N-00 | 0 | 09/25/2016 | **12** | **24** |
| | SB46-5N-12 | 12 | 09/25/2016 | NA | **7.8** |
| | SB46-5E-00 | 0 | 09/25/2016 | **4.7** | **7.8** |
| | DUP4A-092516 | 0 | 09/25/2016 | **5.1** | NA |
| | SB46-5E-12 | 12 | 09/25/2016 | NA | **6.5** |
| | SB46-5S-00 | 0 | 09/25/2016 | **9.9** | **19** |
| | SB46-5S-12 | 12 | 09/25/2016 | NA | **110** |
| | SB46-5S-24 | 24 | 09/25/2016 | NA | **6.2** |
| | SB46-10S-00 | 0 | 09/25/2016 | NA | **79** |
| SB47 | SB47-00 | 0 | 08/02/2016 | **16** | **4.9** |
| | SB47-12 | 12 | 08/02/2016 | **11** | NA |
| | SB47-5E-00 | 0 | 10/02/2016 | **16** | NA |
| | SB47-5E-12 | 12 | 10/02/2016 | **12** | NA |
| | SB47-10E-00 | 0 | 09/25/2016 | **12** | NA |
| | SB47-5S-00 | 0 | 10/02/2016 | **20** | NA |
| | SB47-5S-12 | 12 | 10/02/2016 | **13** | NA |
| | SB47-5S-24 | 24 | 10/02/2016 | **9.5** | NA |
| | SB47-5W-00 | 0 | 10/02/2016 | **9.5** | NA |
| | DUP5A-100216 | 0 | 10/02/2016 | **9.5** | NA |
| SB48 | SB48-00 | 0 | 08/02/2016 | **5.9** | **20** |
| | SB48-12 | 12 | 08/02/2016 | **5.7** | **8.7** |
| | SB48-24 | 24 | 08/02/2016 | **6.1** | **12** |
| | SB48-48 | 48 | 08/02/2016 | **5.1** | **4.1** |
| | SB48-96 | 96 | 08/02/2016 | **3.9** | **2.0** |
| SB49 | SB49-48 | 48 | 08/02/2016 | NA | NA |
| | SB49-96 | 96 | 08/02/2016 | **6.5** | **3.3** |
| **DTSC Residential SL — Noncancer Endpoint** | | | | NA | 80.00 |
| **DTSC Upper Bound Estimate (95th percentile) Background** | | | | 12.00 | — |

***Notes:***

| | | |
|---|---|---|
| mg/kg | = | milligrams per kilogram |
| bgs | = | below ground surface |
| ND (<X) | = | denotes result was below the detection limit of X mg/kg |
| NA | = | denotes sample not analyzed |
| DUP | = | field duplicate |

**Red numbers** indicate sample results above the health screening level.

**Table 2**
**Summary of Organochlorine Pesticides in Soil Samples**
**Test Method EPA 8081A**
**San Pedro High School**
**1001 W. 15th St., San Pedro, CA**

| Location | Field Sample ID | Depth (feet bgs) | Date | Organochlorine Pesticides (mg/kg) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4,4'-DDD | 4,4'-DDE | 4,4'-DDT | Aldrin | Alpha-BHC | Beta-BHC | Chlordane | Delta-BHC | Dieldrin | Endosulfan I | Endosulfan II | Endosulfan Sulfate | Endrin | Endrin Aldehyde | Endrin Ketone | Gamma-BHC | Heptachlor | Heptachlor Epoxide | Methoxychlor | Toxaphene |
| | | | | 72-54-8 | 72-55-9 | 50-29-3 | 309-00-2 | 319-84-6 | 319-85-7 | 57-74-9 | 319-86-8 | 60-57-1 | 959-98-8 | 33213-65-9 | 1031-07-8 | 72-20-8 | 7421-93-4 | 53494-70-5 | 58-89-9 | 76-44-8 | 1024-57-3 | 72-43-5 | 8001-35-2 |
| SB1 | SB1-00 | 0 | 08/01/2016 | **0.00063** | **0.0013** | **0.00053** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) | ND (<0.00050) | **0.00014** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| SB2 | SB2-00 | 0 | 08/03/2016 | ND (<0.00050) | **0.00066** | **0.0011** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | **0.017** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| SB3 | SB3-00 | 0 | 08/03/2016 | ND (<0.0025) | **0.0026** | **0.0029** | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | **0.022** | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | NA | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.25) |
| SB4 | SB4-00 | 0 | 08/02/2016 | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| **AA-244** | | | | | | | | | | | | | | | | | | | | | | | |
| SB5 | SB5-00 | 0 | 08/02/2016 | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | NA | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) |
| SB6 | SB6-00 | 0 | 08/02/2016 | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| SB7 | SB7-00 | 0 | 08/03/2016 | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| SB8 | SB8-00 | 0 | 08/03/2016 | ND (<0.0010) | ND (<0.0010) | **0.00069** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | NA | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) |
| **AA-347** | | | | | | | | | | | | | | | | | | | | | | | |
| SB9 | SB9-00 | 0 | 08/02/2016 | **0.0027** | **0.0028** | **0.0051** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | **0.0080** | ND (<0.0010) | **0.0011** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | NA | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) |
| SB10 | SB10-00 | 0 | 08/03/2016 | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | NA | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) |
| SB11 | SB11-00 | 0 | 08/03/2016 | ND (<0.0095) | ND (<0.0095) | **0.0024** | ND (<0.0095) | ND (<0.0095) | ND (<0.0095) | ND (<0.95) | ND (<0.0095) | ND (<0.0095) | ND (<0.0095) | ND (<0.0095) | ND (<0.0095) | ND (<0.0095) | ND (<0.0095) | NA | ND (<0.0095) | ND (<0.0095) | ND (<0.0095) | ND (<0.0095) | ND (<0.95) |
| SB12 | SB12-00 | 0 | 08/03/2016 | ND (<0.00050) | ND (<0.00050) | **0.00051** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| **AA2384** | | | | | | | | | | | | | | | | | | | | | | | |
| SB13 | SB13-00 | 0 | 08/02/2016 | ND (<0.00050) | ND (<0.00050) | **0.00017** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| SB14 | SB14-00 | 0 | 08/03/2016 | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.50) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | NA | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.50) |
| SB15 | SB15-00 | 0 | 08/03/2016 | ND (<0.042) | **0.0071** | ND (<0.042) | ND (<0.042) | ND (<0.042) | ND (<0.042) | ND (<4.2) | ND (<0.042) | ND (<0.042) | ND (<0.042) | ND (<0.042) | ND (<0.042) | ND (<0.042) | ND (<0.042) | NA | ND (<0.042) | ND (<0.042) | ND (<0.042) | ND (<0.042) | ND (<4.2) |
| SB16 | SB16-00 | 0 | 08/03/2016 | ND (<0.0050) | ND (<0.0050) | **0.0020** | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.50) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | NA | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.50) |
| **Lunch Shelter** | | | | | | | | | | | | | | | | | | | | | | | |
| SB17 | SB17-00 | 0 | 08/03/2016 | ND (<0.083) | ND (<0.083) | ND (<0.083) | ND (<0.083) | ND (<0.083) | ND (<0.083) | ND (<8.3) | ND (<0.083) | ND (<0.083) | ND (<0.083) | ND (<0.083) | ND (<0.083) | ND (<0.083) | ND (<0.083) | NA | ND (<0.083) | ND (<0.083) | ND (<0.083) | ND (<0.083) | ND (<8.3) |
| SB18 | SB18-00 | 0 | 08/03/2016 | ND (<0.0097) | ND (<0.0097) | ND (<0.0097) | ND (<0.0097) | ND (<0.0097) | ND (<0.0097) | ND (<0.97) | ND (<0.0097) | **0.0014** | ND (<0.0097) | ND (<0.0097) | ND (<0.0097) | ND (<0.0097) | ND (<0.0097) | NA | ND (<0.0097) | ND (<0.0097) | ND (<0.0097) | ND (<0.0097) | ND (<0.97) |
| SB19 | SB19-00 | 0 | 08/03/2016 | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.50) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | NA | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.50) |
| SB20 | SB20-00 | 0 | 08/03/2016 | ND (<0.079) | **0.015** | ND (<0.079) | ND (<0.079) | **0.023** | ND (<0.079) | ND (<7.9) | ND (<0.079) | ND (<0.079) | ND (<0.079) | ND (<0.079) | ND (<0.079) | ND (<0.079) | ND (<0.079) | NA | ND (<0.079) | ND (<0.079) | ND (<0.079) | ND (<0.079) | ND (<7.9) |
| **Flammable Storage** | | | | | | | | | | | | | | | | | | | | | | | |
| SB21 | SB21-00 | 0 | 08/01/2016 | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.50) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | NA | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.50) |
| SB22 | SB22-00 | 0 | 08/01/2016 | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) | ND (<0.0010) | **0.010** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | NA | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) |
| SB23 | SB23-00 | 0 | 08/01/2016 | ND (<0.0025) | ND (<0.0025) | **0.00066** | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | **0.24** | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | NA | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.25) |
| SB24 | SB24-00 | 0 | 08/01/2016 | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | **0.33** | ND (<0.0025) | **0.00038** | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | NA | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.25) |

**Table 2**
**Summary of Organochlorine Pesticides in Soil Samples**
**Test Method EPA 8081A**
**San Pedro High School**
**1001 W. 15th St., San Pedro, CA**

| Location | Field Sample ID | Depth (feet bgs) | Date | Organochlorine Pesticides (mg/kg) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4,4'-DDD | 4,4'-DDE | 4,4'-DDT | Aldrin | Alpha-BHC | Beta-BHC | Chlordane | Delta-BHC | Dieldrin | Endosulfan I | Endosulfan II | Endosulfan Sulfate | Endrin | Endrin Aldehyde | Endrin Ketone | Gamma-BHC | Heptachlor | Heptachlor Epoxide | Methoxychlor | Toxaphene |
| | | | | 72-54-8 | 72-55-9 | 50-29-3 | 309-00-2 | 319-84-6 | 319-85-7 | 57-74-9 | 319-86-8 | 60-57-1 | 959-98-8 | 33213-65-9 | 1031-07-8 | 72-20-8 | 7421-93-4 | 53494-70-5 | 58-89-9 | 76-44-8 | 1024-57-3 | 72-43-5 | 8001-35-2 |
| **Unnamed (Classroom)** | | | | | | | | | | | | | | | | | | | | | | |
| SB25 | SB25-00 | 0 | 08/02/2016 | **0.030** | **0.0042** | **0.030** | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | **1.1** | ND (<0.0025) | **0.036** | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | NA | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.25) |
| | SB25-12 | 12 | 08/02/2016 | **0.018** | **0.037** | **0.017** | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | **0.26** | ND (<0.0025) | **0.019** | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | NA | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.25) |
| | SB25-5E-00 | 0 | 09/24/2016 | **0.034** | **0.36** | **0.056** | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | **0.96** | ND (<0.0050) | **0.037** | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | NA | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.50) |
| | SB25-5E-12 | 12 | 09/24/2016 | **0.0011** | **0.0089** | **0.0022** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | **0.041** | ND (<0.0010) | **0.0011** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | NA | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) |
| | SB25-10E-00 | 0 | 09/24/2016 | **0.020** | **0.20** | **0.041** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | **0.55** | ND (<0.0010) | **0.011** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | NA | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) |
| | SB25-10E-12 | 12 | 09/24/2016 | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.25) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | NA | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.25) |
| | SB25-5W-00 | 0 | 09/24/2016 | ND (<0.00050) | **0.00073** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) | ND (<0.00050) | **0.00042** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| SB26 | SB26-00 | 0 | 08/02/2016 | **0.016** | **0.0055** | **0.011** | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | **0.55** | ND (<0.0025) | **0.025** | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | NA | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.25) |
| | SB26-12 | 12 | 08/02/2016 | **0.00027** | ND (<0.00050) | **0.00039** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | **0.0017** | ND (<0.00050) | **0.00037** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| | SB26-5N-00 | 0 | 09/24/2016 | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.25) | ND (<0.0025) | **0.00060** | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | NA | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.25) |
| | SB26-5S-00 | 0 | 09/24/2016 | **0.00077** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) | ND (<0.0010) | **0.00038** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | NA | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) |
| | DUP1A-092416 | - | 09/24/2016 | **0.00036** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) | ND (<0.0010) | **0.00018** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | NA | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) |
| SB27 | SB27-00 | 0 | 08/02/2016 | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | **0.066** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| SB28 | SB28-00 | 0 | 08/02/2016 | ND (<0.0083) | ND (<0.0083) | ND (<0.0083) | ND (<0.0083) | ND (<0.0083) | ND (<0.0083) | **0.43** | ND (<0.0083) | ND (<0.0083) | ND (<0.0083) | ND (<0.0083) | ND (<0.0083) | ND (<0.0083) | ND (<0.0083) | NA | ND (<0.0083) | ND (<0.0083) | ND (<0.0083) | ND (<0.0083) | ND (<0.83) |
| **BB-182** | | | | | | | | | | | | | | | | | | | | | | |
| SB29 | SB29-00 | 0 | 08/01/2016 | **0.025** | ND (<0.00050) | **0.0040** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | **0.70** | ND (<0.00050) | **0.018** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| | SB29-12 | 12 | 08/01/2016 | **0.0052** | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.25) | ND (<0.0025) | **0.0035** | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | NA | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.25) |
| SB30 | SB30-00 | 0 | 08/02/2016 | ND (<0.039) | ND (<0.039) | ND (<0.039) | ND (<0.039) | ND (<0.039) | ND (<0.039) | **1.7** | ND (<0.039) | ND (<0.039) | ND (<0.039) | ND (<0.039) | ND (<0.039) | ND (<0.039) | ND (<0.039) | NA | ND (<0.039) | ND (<0.039) | ND (<0.039) | ND (<0.039) | ND (<3.9) |
| | SB30-12 | 12 | 08/02/2016 | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.50) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | NA | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.50) |
| | SB30-5N-00 | 0 | 09/24/2016 | **0.0020** | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.50) | ND (<0.0050) | **0.00072** | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | NA | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.50) |
| | SB30-5E-00 | 0 | 09/24/2016 | **0.0022** | **0.00045** | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.25) | ND (<0.0025) | **0.00080** | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | NA | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.25) |
| | SB30-5S-00 | 0 | 09/24/2016 | **0.013** | **0.0020** | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | **0.040** | ND (<0.0050) | **0.0058** | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | NA | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.50) |

**Table 2**
**Summary of Organochlorine Pesticides in Soil Samples**
**Test Method EPA 8081A**
**San Pedro High School**
**1001 W. 15th St., San Pedro, CA**

| Location | Field Sample ID | Depth (feet bgs) | Date | Organochlorine Pesticides (mg/kg) | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4,4'-DDD | 4,4'-DDE | 4,4'-DDT | Aldrin | Alpha-BHC | Beta-BHC | Chlordane | Delta-BHC | Dieldrin | Endosulfan I | Endosulfan II | Endosulfan Sulfate | Endrin | Endrin Aldehyde | Endrin Ketone | Gamma-BHC | Heptachlor | Heptachlor Epoxide | Methoxychlor | Toxaphene |
| | | | | 72-54-8 | 72-55-9 | 50-29-3 | 309-00-2 | 319-84-6 | 319-85-7 | 57-74-9 | 319-86-8 | 60-57-1 | 959-98-8 | 33213-65-9 | 1031-07-8 | 72-20-8 | 7421-93-4 | 53494-70-5 | 58-89-9 | 76-44-8 | 1024-57-3 | 72-43-5 | 8001-35-2 |
| SB31 | SB31-00 | 0 | 08/02/2016 | **0.033** | **0.040** | **0.011** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | **0.66** | ND (<0.0010) | **0.064** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | NA | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) |
| | SB31-12 | 12 | 08/02/2016 | **0.0029** | **0.0054** | **0.0034** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | **0.064** | ND (<0.0010) | **0.0067** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | NA | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) |
| | SB31-5E-00 | 0 | 09/24/2016 | **0.031** | **0.023** | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.25) | ND (<0.0025) | **0.076** | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | NA | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.25) |
| | SB31-5E-12 | 12 | 09/24/2016 | ND (<0.00050) | **0.00018** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | **0.0094** | ND (<0.00050) | **0.00018** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| | SB31-10E-00 | 0 | 09/24/2016 | **0.0067** | **0.0043** | **0.0070** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | **0.17** | ND (<0.0010) | **0.011** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | NA | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) |
| | SB31-5S-00 | 0 | 09/24/2016 | **0.0058** | **0.0080** | **0.0084** | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | **0.035** | ND (<0.0025) | **0.025** | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | NA | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.25) |
| | SB31-5W-00 | 0 | 09/24/2016 | **0.0058** | **0.0090** | **0.0085** | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | **0.021** | ND (<0.0025) | **0.020** | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | NA | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.25) |
| SB32 | SB32-00 | 0 | 08/01/2016 | **0.0023** | **0.00087** | **0.0015** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | **0.10** | ND (<0.00050) | **0.0036** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | **0.0011** | ND (<0.00050) | ND (<0.050) |
| **AA-2082** | | | | | | | | | | | | | | | | | | | | | | | |
| SB33 | SB33-00 | 0 | 08/02/2016 | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| SB34 | SB34-00 | 0 | 08/01/2016 | **0.0025** | **0.00032** | **0.0014** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | **0.14** | ND (<0.0010) | **0.0054** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | NA | ND (<0.0010) | ND (<0.0010) | **0.0020** | ND (<0.0010) | ND (<0.10) |
| SB35 | SB35-00 | 0 | 08/01/2016 | **0.0039** | **0.0020** | **0.0032** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | **0.35** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | NA | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) |
| SB36 | SB36-00 | 0 | 08/01/2016 | ND (<0.0028) | **0.0038** | **0.0091** | ND (<0.0028) | ND (<0.0028) | ND (<0.0028) | **0.62** | ND (<0.0028) | ND (<0.0028) | ND (<0.0028) | ND (<0.0028) | ND (<0.0028) | ND (<0.0028) | ND (<0.0028) | NA | ND (<0.0028) | ND (<0.0028) | ND (<0.0028) | ND (<0.0028) | ND (<0.28) |
| | SB36-12 | 12 | 08/01/2016 | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.25) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | NA | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.25) |
| | SB36-5N-00 | 0 | 09/24/2016 | ND (<0.0010) | **0.0019** | **0.0037** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | **0.0040** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | NA | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) |
| | SB36-5S-00 | 0 | 09/24/2016 | ND (<0.00050) | **0.00095** | **0.0026** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | **0.0033** | ND (<0.00050) | **0.00095** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| **Shop** | | | | | | | | | | | | | | | | | | | | | | | |
| SB37 | SB37-00 | 0 | 08/01/2016 | **0.0036** | **0.0011** | **0.0011** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | **0.11** | ND (<0.00050) | **0.0015** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| SB38 | SB38-00 | 0 | 08/02/2016 | **0.0091** | **0.00043** | **0.0025** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | **0.24** | ND (<0.0010) | **0.0031** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | NA | ND (<0.0010) | ND (<0.0010) | **0.0031** | ND (<0.0010) | ND (<0.10) |
| SB39 | SB39-00 | 0 | 08/02/2016 | ND (<0.00050) | **0.0016** | **0.0015** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| SB40 | SB40-00 | 0 | 08/02/2016 | **0.0016** | **0.00019** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | **0.070** | ND (<0.00050) | **0.00056** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| **Unnamed (Portable)** | | | | | | | | | | | | | | | | | | | | | | | |
| SB41 | SB41-00 | 0 | 08/02/2016 | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| SB42 | SB42-00 | 0 | 08/02/2016 | ND (<0.00050) | **0.0014** | **0.00035** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| SB43 | SB43-00 | 0 | 08/02/2016 | **0.00034** | **0.0025** | **0.00044** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | **0.0087** | ND (<0.00050) | **0.00024** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| SB44 | SB44-00 | 0 | 08/02/2016 | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | **0.081** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |

**Table 2**
**Summary of Organochlorine Pesticides in Soil Samples**
**Test Method EPA 8081A**
**San Pedro High School**
**1001 W. 15th St., San Pedro, CA**

| Location | Field Sample ID | Depth (feet bgs) | Date | Organochlorine Pesticides (mg/kg) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4,4'-DDD | 4,4'-DDE | 4,4'-DDT | Aldrin | Alpha-BHC | Beta-BHC | Chlordane | Delta-BHC | Dieldrin | Endosulfan I | Endosulfan II | Endosulfan Sulfate | Endrin | Endrin Aldehyde | Endrin Ketone | Gamma-BHC | Heptachlor | Heptachlor Epoxide | Methoxychlor | Toxaphene |
| | | | | 72-54-8 | 72-55-9 | 50-29-3 | 309-00-2 | 319-84-6 | 319-85-7 | 57-74-9 | 319-86-8 | 60-57-1 | 959-98-8 | 33213-65-9 | 1031-07-8 | 72-20-8 | 7421-93-4 | 53494-70-5 | 58-89-9 | 76-44-8 | 1024-57-3 | 72-43-5 | 8001-35-2 |
| **Industrial Arts** | | | | | | | | | | | | | | | | | | | | | | |
| SB45 | SB45-00 | 0 | 08/02/2016 | ND (<0.00050) | **0.0047** | **0.0037** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| SB46 | SB46-00 | 0 | 08/02/2016 | **0.0045** | ND (<0.0050) | **0.010** | ND (<0.0050) | **0.0061** | ND (<0.0050) | **0.86** | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | NA | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.50) |
| | SB46-12 | 12 | 08/02/2016 | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | **0.081** | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| | SB46-5N-00 | 0 | 09/25/2016 | **0.0033** | **0.0010** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | **0.012** | ND (<0.0010) | **0.0021** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | NA | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) |
| | SB46-5E-00 | 0 | 09/25/2016 | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | NA | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) |
| | DUP4A-092516 | - | 09/25/2016 | ND (<0.0010) | **0.00040** | **0.00072** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) | ND (<0.0010) | **0.00059** | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | NA | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.0010) | ND (<0.10) |
| | SB46-5S-00 | 0 | 09/25/2016 | **0.0017** | **0.00052** | **0.0019** | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.25) | ND (<0.0025) | **0.0085** | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | NA | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.0025) | ND (<0.25) |
| SB47 | SB47-00 | 0 | 08/02/2016 | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| SB48 | SB48-00 | 0 | 08/02/2016 | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.50) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | NA | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.50) |
| | SB48-12 | 12 | 08/02/2016 | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| | SB48-24 | 24 | 08/02/2016 | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| | SB48-48 | 48 | 08/02/2016 | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| | SB48-96 | 96 | 08/02/2016 | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | NA | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.00050) | ND (<0.050) |
| **DTSC Residential SL - Cancer Endpoint** | | | | - | - | - | - | - | - | 0.44 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **DTSC Residential SL - Noncancer Endpoint** | | | | - | - | - | - | - | - | 35.00 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Residential Region 9 RSL** | | | | 2.30 | 2.00 | 1.90 | 0.04 | 0.09 | 0.30 | 1.70 | - | 0.03 | - | - | - | 19.00 | - | - | 0.57 | 0.13 | 0.07 | 320.00 | 0.49 |

***Notes:***

| | | |
|---|---|---|
| mg/kg | = | milligrams per kilogram |
| bgs | = | below ground surface |
| ND (<X) | = | denotes result was below the detection limit of X µg/kg |
| NA | = | denotes sample not analyzed |
| DUP | = | field duplicate |
| Region 9 RSL | = | Environmental Protection Agency (EPA) Regional Screening Level |

**Table 3**
**Summary of Polychlorinated Biphenyls (PCBs-Aroclors) in Soil Samples**
**Test Method EPA 8082**
**San Pedro High School**
**1001 W. 15th St., San Pedro, CA**

| Location | Field Sample ID | Depth (feet bgs) | Date | Compounds (mg/kg) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aroclor-1016 | Aroclor-1221 | Aroclor-1232 | Aroclor-1242 | Aroclor-1248 | Aroclor-1254 | Aroclor-1260 | Total PCB's (Summation) |
| | | | | 12674-11-2 | 11104-28-2 | 11141-16-5 | 53469-21-9 | 12672-29-6 | 11097-69-1 | 11096-82-5 | 1336-36-3 |
| SB10 | SB10-00 | 0 | 08/03/2016 | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) |
| SB20 | SB20-00 | 0 | 08/03/2016 | ND (<0.16) | ND (<0.16) | ND (<0.16) | ND (<0.16) | ND (<0.16) | ND (<0.16) | ND (<0.16) | ND (<0.16) |
| SB30 | SB30-00 | 0 | 08/02/2016 | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) |
| SB40 | SB40-00 | 0 | 08/02/2016 | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) |
| SB48 | SB48-00 | 0 | 08/02/2016 | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) |
| | SB48-12 | 12 | 08/02/2016 | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) |
| | SB48-24 | 24 | 08/02/2016 | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) |
| | SB48-48 | 48 | 08/02/2016 | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) |
| | SB48-96 | 96 | 08/02/2016 | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) |
| SB49 | SB49-48 | 48 | 08/02/2016 | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) |
| | SB49-96 | 96 | 08/02/2016 | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) |
| SB50 | SB50-00 | 0 | 08/03/2016 | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) | ND (<0.010) |
| **Residential Region 9 RSL** | | | | 4.10 | 0.20 | 0.17 | 0.23 | 0.23 | 0.24 | 0.24 | 0.23 |

***Notes:***

| | | |
|---|---|---|
| mg/kg | = | milligrams per kilogram |
| bgs | = | below ground surface |
| PCB | = | polychlorinated biphenyls |
| ND (<X) | = | denotes result was below the detection limit of X mg/kg |
| NA | = | denotes sample not analyzed |
| DUP | = | field duplicate |
| CHHSL | = | California Office of Environmental Health Hazard Assessment (OEHHA) Screening Level |
| Region 9 RSL | = | Environmental Protection Agency (EPA) Regional Screening Level |

**Table 4**
**Summary of Total Petroleum Hydrocarbons in Soil Samples**
**Test Method EPA 8015B (M)**
**San Pedro High School**
**1001 W. 15th St., San Pedro, CA**

| Location | Field Sample ID | Depth (feet bgs) | Date | Total Petroleum Hydrocarbons (mg/kg) | | |
|---|---|---|---|---|---|---|
| | | | | TPH - Gasoline | TPH - Diesel (FFP) | TPH - Motor Oil |
| **Industrial Arts** | | | | | | |
| SB48 | SB48-00 | 0 | 08/02/2016 | ND (<20) | ND (<10) | **40** |
| | SB48-12 | 12 | 08/02/2016 | ND (<20) | ND (<10) | **17** |
| | SB48-24 | 24 | 08/02/2016 | ND (<20) | ND (<10) | ND (<20) |
| | SB48-48 | 48 | 08/02/2016 | ND (<20) | ND (<10) | **15** |
| | SB48-96 | 96 | 08/02/2016 | ND (<20) | ND (<10) | ND (<20) |
| SB49 | SB49-48 | 48 | 08/02/2016 | ND (<20) | ND (<10) | ND (<20) |
| | SB49-96 | 96 | 08/02/2016 | ND (<20) | ND (<10) | ND (<20) |
| **Residential Region 9 RSL(Aliphatic)** | | | | 520.00 | 96.00 | 230000.00 |
| **Residential Region 9 RSL(Aromatic)** | | | | 82.00 | 110.00 | 2500.00 |

***Notes:***

mg/kg = milligrams per kilogram
bgs = below ground surface
ND (<X) = denotes result was below the detection limit of X mg/kg
Region 9 RSL = Environmental Protection Agency (EPA) Regional Screening Level

**Table 5**
**Summary of Volatile Organic Compounds in Soil Samples Test Method EPA 8260B**
**San Pedro High School 1001 W. 15th St., San Pedro, CA**

| Location | Field Sample ID | Depth (feet bgs) | Date | Volatile Organic Compounds (µg/kg) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1,1,1,2-Tetrachloroethane | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,1-Dichloropropene | 1,2,3-Trichlorobenzene | 1,2,3-Trichloropropane | 1,2,4-Trichlorobenzene | 1,2,4-Trimethylbenzene | 1,2-Dibromo-3-Chloropropane | 1,2-Dibromoethane | 1,2-Dichlorobenzene | 1,2-Dichloroethane | 1,2-Dichloropropane |
| | | | | 630-20-6 | 71-55-6 | 79-34-5 | 76-13-1 | 79-00-5 | 75-34-3 | 75-35-4 | 563-58-6 | 87-61-6 | 96-18-4 | 120-82-1 | 95-63-6 | 96-12-8 | 106-93-4 | 95-50-1 | 107-06-2 | 78-87-5 |
| SB48 | SB48-00 | 0 | 08/02/2016 | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) |
| | SB48-12 | 12 | 08/02/2016 | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) |
| | SB48-24 | 24 | 08/02/2016 | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) |
| | SB48-48 | 48 | 08/02/2016 | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) |
| | SB48-96 | 96 | 08/02/2016 | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) |
| SB49 | SB49-48 | 48 | 08/02/2016 | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) |
| | SB49-96 | 96 | 08/02/2016 | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) |
| **DTSC Residential SL — Cancer Endpoint** | | | | 2.00 | -- | 0.61 | - | - | 3.60 | - | - | -- | 0.00 | - | - | - | 0.04 | - | - | - |
| **Residential Region 9 RSL** | | | | 2.00 | 8100.00 | 0.60 | 40000.00 | 1.10 | 3.60 | 230.00 | - | 63.00 | 0.01 | 24.00 | 58.00 | 0.01 | 0.04 | 1800.00 | 0.46 | 1.00 |

***Notes:***

| | | |
|---|---|---|
| µg/kg | = | micrograms per kilogram |
| bgs | = | below ground surface |
| ND (<X) | = | denotes result was below the detection limit of X µg/kg |
| NA | = | denotes sample not analyzed |
| DUP | = | field duplicate |
| CHHSL | = | California Office of Environmental Health Hazard Assessment (OEHHA) Screening Level |
| Region 9 RSL | = | United States Environmental Protection Agency (U.S. EPA) Regional Screening Level |

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**Table 5**
**Summary of Volatile Organic Compounds in Soil Samples Test Method EPA 8260B**
**San Pedro High School 1001 W. 15th St., San Pedro, CA**

| Location | Field Sample ID | Depth (feet bgs) | Date | Volatile Organic Compounds (µg/kg) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1,3,5-Trimethylbenzene | 1,3-Dichlorobenzene | 1,3-Dichloropropane | 1,4-Dichlorobenzene | 2,2-Dichloropropane | 2-Chlorotoluene | 4-Chlorotoluene | Benzene | Bromobenzene | Bromochloromethane | Bromodichloromethane | Bromoform | Bromomethane | c-1,2-Dichloroethene | c-1,3-Dichloropropene | Carbon Tetrachloride | Chlorobenzene |
| | | | | 108-67-8 | 541-73-1 | 142-28-9 | 106-46-7 | 594-20-7 | 95-49-8 | 106-43-4 | 71-43-2 | 108-86-1 | 74-97-5 | 75-27-4 | 75-25-2 | 74-83-9 | 156-59-2 | 10061-01-5 | 56-23-5 | 108-90-7 |
| SB48 | SB48-00 | 0 | 08/02/2016 | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) |
| | SB48-12 | 12 | 08/02/2016 | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) |
| | SB48-24 | 24 | 08/02/2016 | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) |
| | SB48-48 | 48 | 08/02/2016 | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) |
| | SB48-96 | 96 | 08/02/2016 | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) |
| SB49 | SB49-48 | 48 | 08/02/2016 | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) |
| | SB49-96 | 96 | 08/02/2016 | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) |
| **DTSC Residential SL - Cancer Endpoint** | | | | -- | -- | -- | - | - | -- | -- | 0.33 | - | - | 0.30 | 20.00 | - | -- | - | 0.10 | - |
| **Residential Region 9 RSL** | | | | 780.00 | - | 1600.00 | 2.60 | - | 1600.00 | 1600.00 | 1.20 | 290.00 | 150.00 | 0.29 | 19.00 | 6.80 | 160.00 | - | 0.65 | 280.00 |

***Notes:***

| | | |
|---|---|---|
| µg/kg | = | micrograms per kilogram |
| bgs | = | below ground surface |
| ND (<X) | = | denotes result was below the detection limit of X µg/kg |
| NA | = | denotes sample not analyzed |
| DUP | = | field duplicate |
| CHHSL | = | California Office of Environmental Health Hazard Assessment (OEHHA) Screening Level |
| Region 9 RSL | = | United States Environmental Protection Agency (U.S. EPA) Regional Screening Level |

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**Table 5**
**Summary of Volatile Organic Compounds in Soil Samples Test Method EPA 8260B**
**San Pedro High School 1001 W. 15th St., San Pedro, CA**

| Location | Field Sample ID | Depth (feet bgs) | Date | Chloroethane | Chloroform | Chloromethane | Dibromochloromethane | Dibromomethane | Dichlorodifluoromethane | Ethylbenzene | Hexachloro-1,3-Butadiene | Isopropylbenzene | Methylene Chloride | Methyl-t-Butyl Ether (MTBE) | Naphthalene | n-Butylbenzene | n-Propylbenzene |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 75-00-3 | 67-66-3 | 74-87-3 | 124-48-1 | 74-95-3 | 75-71-8 | 100-41-4 | 87-68-3 | 98-82-8 | 75-09-2 | 1634-04-4 | 91-20-3 | 104-51-8 | 103-65-1 |
| SB48 | SB48-00 | 0 | 08/02/2016 | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0089) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) |
| | SB48-12 | 12 | 08/02/2016 | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.010) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) |
| | SB48-24 | 24 | 08/02/2016 | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.010) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) |
| | SB48-48 | 48 | 08/02/2016 | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0083) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) |
| | SB48-96 | 96 | 08/02/2016 | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0085) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) |
| SB49 | SB49-48 | 48 | 08/02/2016 | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.010) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) |
| | SB49-96 | 96 | 08/02/2016 | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.010) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) |
| **DTSC Residential SL - Cancer Endpoint** | | | | - | - | - | 0.95 | - | - | - | 1.20 | - | 1.90 | - | - | -- | - |
| **Residential Region 9 RSL** | | | | 14000.00 | 0.32 | 110.00 | 8.30 | 24.00 | 87.00 | 5.80 | 1.20 | 1900.00 | 57.00 | 47.00 | 3.80 | 3900.00 | 3800.00 |

***Notes:***

| | | |
|---|---|---|
| µg/kg | = | micrograms per kilogram |
| bgs | = | below ground surface |
| ND (<X) | = | denotes result was below the detection limit of X µg/kg |
| NA | = | denotes sample not analyzed |
| DUP | = | field duplicate |
| CHHSL | = | California Office of Environmental Health Hazard Assessment (OEHHA) Screening Level |
| Region 9 RSL | = | United States Environmental Protection Agency (U.S. EPA) Regional Screening Level |

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**Table 5**
**Summary of Volatile Organic Compounds in Soil Samples Test Method EPA 8260B**
**San Pedro High School 1001 W. 15th St., San Pedro, CA**

| Location | Field Sample ID | Depth (feet bgs) | Date | o-Xylene | p/m-Xylene | p-isopropyltoluene | sec-Butylbenzene | Styrene | t-1,2-Dichloroethene | t-1,3-Dichloropropene | tert-Butylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Trichlorofluoromethane | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 95-47-6 | 179601-23-1 | 99-87-6 | 135-98-8 | 100-42-5 | 156-60-5 | 10061-02-6 | 98-06-6 | 127-18-4 | 108-88-3 | 79-01-6 | 75-69-4 | 75-01-4 |
| SB48 | SB48-00 | 0 | 08/02/2016 | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) | ND (<0.0045) |
| | SB48-12 | 12 | 08/02/2016 | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) |
| | SB48-24 | 24 | 08/02/2016 | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) |
| | SB48-48 | 48 | 08/02/2016 | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) | ND (<0.0041) |
| | SB48-96 | 96 | 08/02/2016 | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) | ND (<0.0043) |
| SB49 | SB49-48 | 48 | 08/02/2016 | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) |
| | SB49-96 | 96 | 08/02/2016 | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) | ND (<0.0050) |
| **DTSC Residential SL - Cancer Endpoint** | | | | - | - | - | -- | - | -- | - | -- | 0.60 | -- | - | -- | 0.01 |
| **Residential Region 9 RSL** | | | | 650.00 | - | - | 7800.00 | 6000.00 | 1600.00 | - | 7800.00 | 24.00 | 4900.00 | 0.94 | 23000.00 | 0.06 |

***Notes:***

| | | |
|---|---|---|
| µg/kg | = | micrograms per kilogram |
| bgs | = | below ground surface |
| ND (<X) | = | denotes result was below the detection limit of X µg/kg |
| NA | = | denotes sample not analyzed |
| DUP | = | field duplicate |
| CHHSL | = | California Office of Environmental Health Hazard Assessment (OEHHA) Screening Level |
| Region 9 RSL | = | United States Environmental Protection Agency (U.S. EPA) Regional Screening Level |

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**Table 6**
**Summary of Recommended Removal Actions**
**San Pedro High School**
**1001 W. 15th St., San Pedro, CA**

| Area ID | COC | Max Conc. | Excavation Area Recommendations and Notes | Vertically Delineated? (Y/N) | Planned Depth (inches) | Area Size (SF) | Estimated Volume (cy) * |
|---|---|---|---|---|---|---|---|
| SB1 | Arsenic | 28 | Excavation centered on SB1 and SB1-5N to 24 inches bgs. Defined by SB1-10N, building (east), SB1-5S (south), and SB1-5W (west). | Y | 24 | 100 | 7.4 |
| SB3 | Lead | 110 | Excavation centered on SB3 to 12 inches bgs. Defined by utilities (north and east), SB3-5S (south), and building (west). | Y | 12 | 60 | 2.2 |
| SB4 | Arsenic | 26 | Excavation centered on SB4, SB4-5E, and SB4-10E to 36 inches bgs. Defined by building (north), edge of staircase and future sidewall sample (east), SB4-5S (south), and SB4-5W (west). | N | 36 | 114 | 12.7 |
| SB6 | Arsenic | 15 | Excavation centered on SB6-5E and SB6-10E to 36 inches bgs. Defined by SB6-5N (north), SB6-20 (east), building (south), and SB6 (west). | N | 36 | 77 | 8.6 |
| SB7 | Lead | 250 | Excavation centered on SB7-5, SB7-5W, and SB7-5S to 36 inches bgs. Defined by building (north), SB7-5E (east), edge of asphalt at slope (south), and unnamed utility between SB7-5W and SB7-10EW (west). | N | 36 | 153 | 17.0 |
| SB8 | Arsenic | 18 | Excavation centered on SB8, SB-5N, SB8-5S, SB8-10S to 24 inches bgs. Defined by utilities to (north, east, south), and building (west). | Y | 24 | 103 | 7.6 |
| SB9 | Lead | 170 | Excavation centered on SB9 to 12 inches bgs. Defined by SB5-5N (north), SB5-5E (east), building/utilities (south), and SB5-5W (west). | Y | 12 | 50 | 1.9 |
| SB11 | Arsenic | 25 | Excavation centered on SB11, SB11-5E, SB11-5S, SB11-5W and SB11-10W, to 36 inches bgs. Defined by edge of asphalt/lunch shelter (north), SB11-10E (east) SB11-10S (south), and subsurface utility (west). | N | 36 | 204 | 22.7 |
| SB15 | Arsenic | 26 | Excavation centered on SB15-5W and SB15-10W to 24 inches bgs. Defined by edge of asphalt/lunch shelter (north), SB15 (east), SB15-5S (south), and subsurface water line beyond SB15-10W (west). | Y | 24 | 84 | 6.2 |
| SB17 | Lead | 110 | Excavation centered on SB17 to 12 inches bgs. Defined by SB17-5N (north), SB17-5E (east), edge of asphalt/lunch shelter (south), and unknown utility line (west). | Y | 12 | 37 | 1.4 |
| SB18 | Arsenic | 18 | Excavation centered on SB18-5E to 12 inches bgs. Defined by water line before SB18-5N (north), unknown line (northeast and east), SB18-5S (south), and subsurface utility (west). | Y | 12 | 91 | 3.4 |
| SB19 | Arsenic | 15 | Excavation centered on SB19, SB19-5E, and SB19-10E to 24 inches bgs. Defined by edge of concrete shelter (north), SB19-20E (east), SB19-5S (south), SB19-5W (west). | Y | 24 | 155 | 11.5 |
| SB22 | Arsenic | 13 | Excavation centered on unpaved area SB22 to 12 inches bgs. No further sampling due to slope. Define be extension 5 feet to north, adjacent slope (east), extension to south, and edge of building beyond asphalt (west). | Y | 12 | 64 | 2.4 |
| SB23 | Lead | 230 | Excavation centered on SB23 and SB23-5S to 12 inches bgs. Defined by wheelchair ramp/building (north), SB23-5E (east), subsurface utility (south), and SB23-5W (west). | Y | 12 | 60 | 2.2 |

**Table 6**
**Summary of Recommended Removal Actions**
**San Pedro High School**
**1001 W. 15th St., San Pedro, CA**

| Area ID | COC | Max Conc. | Excavation Area Recommendations and Notes | Vertically Delineated? (Y/N) | Planned Depth (inches) | Area Size (SF) | Estimated Volume (cy) * |
|---|---|---|---|---|---|---|---|
| SB25 | Arsenic | 35 | Excavate entire planter area, inside block wall, to 36 inches bgs. Defined by lunch court pavers (north, east, west) and building (south). | N | 36 | 117 | 13.0 |
| | Chlordane | 1.1 | | | | | |
| | Dieldrin | 0.037 | | | | | |
| SB26A | Arsenic | 24 | One of two excavations. Excavation centered on SB26-10N, SB26-15N, SB26-25N and SB26-35N to 36 inches bgs. Defined by block wall near SB-25 (north), downward slope (east), utility conflicts (south), and building (west). | N | 36 | 326 | 36.3 |
| | Lead | 100 | | | | | |
| | Chlordane | 0.55 | | | | | |
| SB26B | Arsenic | 14 | One of two excavations. Excavation centered on SB26 to 36 inches bgs. Defined by utilities (north), downward slope (east), SB26-5S (south), and building (west). | N | 36 | 107 | 11.9 |
| | Lead | 190 | | | | | |
| SB27 | Arsenic | 45 | Excavation centered on SB27 and SB27-5W to 36 inches bgs. Defined by building (north), SB27-5E (east), SB27-10S (south) and SB27-10W (west), | N | 36 | 67 | 7.4 |
| SB29 | Chlordane | 0.7 | No step-put samples collected due to location in grass slope. Assume excavation to 12 inches bgs, extending 5 feet out in each direction. | Y | 12 | 71 | 2.6 |
| SB30 | Chlordane | 1.7 | Excavation centered on SB30 to 12 inches bgs. Defined by SB30-5N (north), SB30-5E (east), SB30-5S (south), and building (west). | Y | 12 | 93 | 3.5 |
| SB31 | Lead | 130 | Excavation centered on SB31 and SB31-5E to 12 inches bgs. Defined by edge of staircase and building (north), SB31-10E (east), subsurface utility (south), and SB31-5W (west). | Y | 12 | 44 | 1.6 |
| | Chlordane | 0.66 | | | | | |
| | Dieldrin | 0.076 | | | | | |
| SB34 | Lead | 200 | Excavation centered on SB34, SB34-5S, SB34-10S to 24 inches bgs. Defined by SB34-5N (north), SB34-5E (east), subsurface utility (south), and building (west). | Y | 24 | 209 | 15.5 |
| SB36 | Lead | 190 | Excavation centered on SB36 to 12 inches bgs. Defined by SB36-5N (north), retaining wall (east), SB36-5S (south), uphill slope (west). Narrow excavation in small planter area. | Y | 12 | 51 | 1.9 |
| SB37A | Arsenic | 59 | Two excavations. First excavation centered on SB37 to 12 inches bgs. Defined by utilities (north), SB37-5E (east), utilities (south), and SB37-5W (west).<br>Second excavation centered on SB37-5S to 36 inches bgs. Defined by utilities (north), SB37-5E (east), building (south), and SB37-5W (west) | Y | 12 | 46 | 1.7 |
| SB37B | | | Second excavation centered on SB37-5S to 36 inches bgs. Defined by utilities (north), SB37-5E (east), building (south), and SB37-5W (west). | N | 36 | 16 | 1.8 |

**Table 6**
**Summary of Recommended Removal Actions**
**San Pedro High School**
**1001 W. 15th St., San Pedro, CA**

| Area ID | COC | Max Conc. | Excavation Area Recommendations and Notes | Vertically Delineated? (Y/N) | Planned Depth (inches) | Area Size (SF) | Estimated Volume (cy) * |
|---|---|---|---|---|---|---|---|
| SB41 | Arsenic | 15 | Excavation centered on SB41-5E and SB41-10E to 12 inches bgs. Defined by curb and slope (north), SB41-15E (east), building (south), and SB41 (west). | Y | 12 | 50 | 1.9 |
| SB44 | Arsenic | 14 | One of two excavations. Centered on SB44 to 12 inches bgs. Defined by a subsurface utility (north), building (east), utility lines (south and southwest), and 5 feet towards parked trailer obstruction (west). | Y | 12 | 42 | 1.5 |
| SB44 | Arsenic | 14 | One of two excavations. Centered on SB44-5N to 12 inches bgs. Defined by a subsurface utility beyond SB44-5N (north), building (east), utility lines (south), and 5 feet towards parked trailer obstruction (west). | Y | 12 | 34 | 1.3 |
| SB46 | Arsenic | 23 | Excavation centered on SB46 and SB46-5S to 24 inches bgs. Defined by SB46-5N (north), SB46-5E (east), SB46-10S (south), and building (west). | Y | 24 | 121 | 9.0 |
| | Lead | 180 | | | | | |
| SB47A | Arsenic | 20 | Two excavations. First excavation centered on SB47 and SB47-5E to 12 inches bgs. Defined by building (north), SB47-10E (east), clay pipe (south), and unknown utility (west). | Y | 12 | 117 | 4.3 |
| SB47B | Arsenic | 20 | Second excavation centered on SB47-5S to 24 inches bgs. Defined by subsurface clay pipe (north), unknown utility (northeast/east), two-foot buffer from retaining wall (south), and subsurface utility (east). | Y | 24 | 46 | 3.4 |
| | | | | | | **Total** | **225.6** |

***Notes:***
* Volume estimates are based on in-situ conditions. Refer to report text for a discussion of anticipated stockpile volume.
SF = square feet
cy = cubic yards

# Appendix A
# CSC Preliminary Environmental Assessment Equivalent Work Plan

CLARK SEIF CLARK, INC.
HEALTH & SAFETY • ENGINEERING • ENVIRONMENTAL

June 22, 2016

Dane Robinson, P.G.
Site Assessment Project Manager
Contract Professional
Office of Environmental Health and Safety
Los Angeles Unified School District
333 South Beaudry Avenue, 21st Floor
Los Angeles, CA 90017

**Re: Work Authorization No. E-308102-2CSC**
**PEA Equivalent Workplan**
**Soil and Radon Sampling (Task 2)**
**San Pedro High School**
**1001 West 15th Street**
**San Pedro, CA 90731**

Dear Mr. Robinson:

Enclosed for your final review are the two Tables and a figure showing proposed soil sampling locations. The analyses and a brief description of the sampling locations are provided in the tables.

Please let me know if you have any questions or comments.

Sincerely,

Jeffrey L. Bannon, P.G.
Vice President, Environmental Services

Enclosures: Table 1– Soil Sampling & Analysis Plan; Table 2: Radon Sampling Plan; and, Figure 1 – Site Map with Proposed Soil Sample Locations

**TABLE 1**
**SAN PEDRO HIGH SCHOOL SOIL SAMPLE ANALYSIS PLAN**

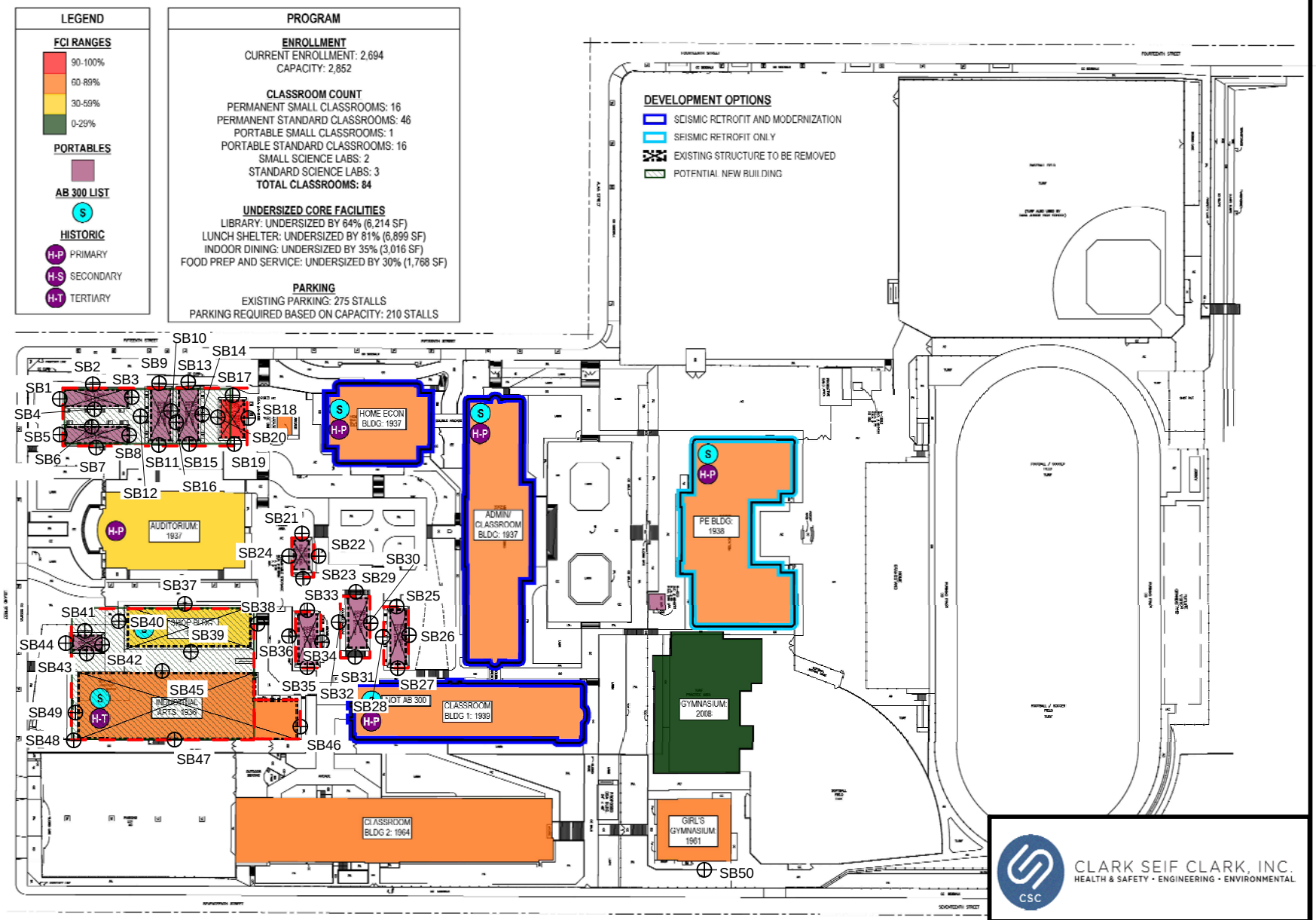
| Boring ID | Sample Depths | Location Adjacent to | Analysis |
|---|---|---|---|
| SB1 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB2 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB3 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB4 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB5 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB6 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB7 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB8 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB9 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB10 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010, Organochlorine Pesticides by EPA Method 8081, and Polychlorinated Biphenyls by EPA Method 8082 |
| SB11 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB12 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB13 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB14 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB15 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB16 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB17 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB18 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB19 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB20 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010, Organochlorine Pesticides by EPA Method 8081, and Polychlorinated Biphenyls by EPA Method 8082 |
| SB21 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB22 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB23 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB24 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB25 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB26 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB27 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB28 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB29 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB30 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010, Organochlorine Pesticides by EPA Method 8081, and Polychlorinated Biphenyls by EPA Method 8082 |
| SB31 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB32 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB33 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB34 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB35 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB36 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB37 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Shop Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB38 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Shop Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB39 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Shop Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB40 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Shop Building | Lead and Arsenic by EPA Method 6010, Organochlorine Pesticides by EPA Method 8081, and Polychlorinated Biphenyls by EPA Method 8082 |
| SB41 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB42 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB43 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB44 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Portable Building | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB45 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Industrial Arts | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB46 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Industrial Arts | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB47 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Industrial Arts | Lead and Arsenic by EPA Method 6010 and Organochlorine Pesticides by EPA Method 8081 |
| SB48 | 0 to 0.5', 1 to 1.5', 2 to 2.5', 4 to 4.5' and 8 to 8.5' (bottom sample depth will be 2 feet below depth of clarifier bottom) | Industrial Arts / Clarifier | Total petroleum hydrocarbons by EPA Method 8015, volatile organic compounds by EPA Method 8260B, Lead and Arsenic by EPA Method 6010, Organochlorine Pesticides by EPA Method 8081, and Polychlorinated Biphenyls by EPA Method 8082 |
| SB49 | 4 to 4.5' and 8 to 8.5' (bottom sample depth will be 2 feet below depth of clarifier bottom) | Industrial Arts / Clarifier | Total petroleum hydrocarbons by EPA Method 8015, volatile organic compounds by EPA Method 8260B, and Polychlorinated Biphenyls by EPA Method 8082 |
| SB50 | 0 to 0.5', 1 to 1.5', and 2 to 2.5' | Girls Gym / Transformers | Polychlorinated Biphenyls by EPA Method 8082 |

**Table 2: Radon Sampling Plan**
**San Pedro High School**
**1001 West 15th Street**
**San Pedro, CA 90731**

| Building Description | Ground Floor Square Footage | Ground Floor Usage | Sampling Required |
|---|---|---|---|
| Two-Story Administration Building Constructed in 1937 | 19,500 | 1 Photography Classroom | Yes |
| | | 1 Photography Laboratory | Yes |
| | | 1 Ceramics Classroom | Yes |
| | | 1 File Storage Room | Yes |
| | | 1 Boiler Room | No |
| | | 1 Electrical Equipment Vault Room | Maybe[1] |
| | | Unfinished, No Access Space (~10,000 $ft^2$) | Maybe[1] |
| Two Story Home Economics Building Constructed in 1937 | 8,125 | 1 Faculty Dining Room | Yes |
| | | 1 Student Cafeteria and Study Hall | Yes |
| | | 1 Kitchen | Yes |
| | | Crawl Space | No |
| Two Story Classroom Building #1 Constructed in 1939 | 15,600 | 12 Classrooms | Yes |
| | | Boys Restroom | No |
| | | Girls Restroom | No |
| Single Story Physical Education Building Constructed in 1938 | 20,850 | 1 Basketball Court and Seating | Yes |
| | | 1 Dance Room | Yes |
| | | 2 Small Faculty Offices | Yes |
| | | 2 Small Waiting Rooms | Yes |
| | | 2 Locker Rooms | Yes |
| | | 2 Shower Rooms | Maybe[1] |
| | | 1 Equipment Storage Room | Yes |
| | | No Crawl Space | No |

**Note 1: Contingency Sampling Locations:** 4 if space will be re-purposed for occupancy

**Total Sampling Locations:** 28




SAN PEDRO HS

Proposed Construction Areas

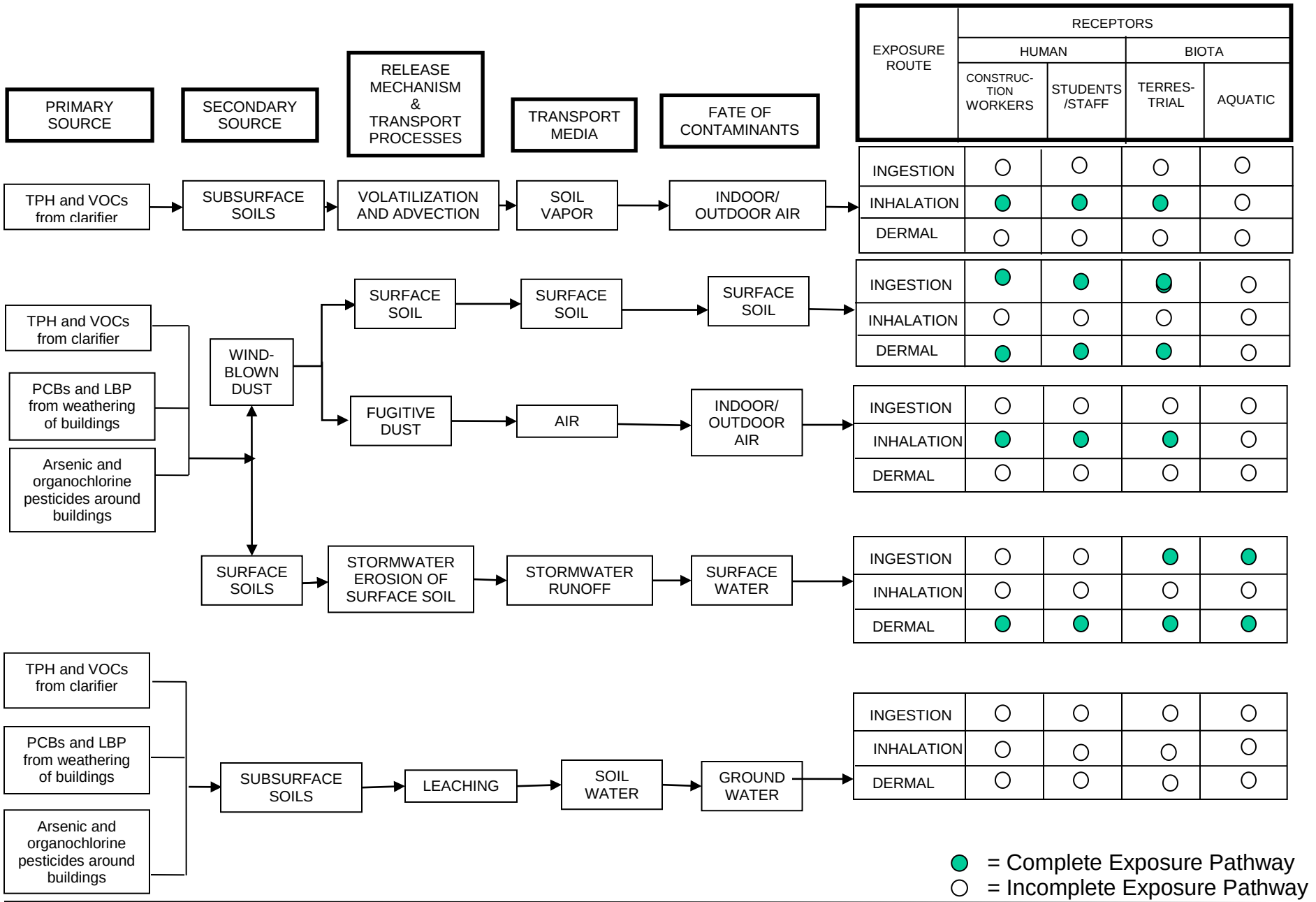
Proposed Soil Sample Location

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**Figure 1 - Site Map**

**San Pedro High School**
**1001 West 15th Street, San Pedro**

# Appendix B
# Conceptual Site Model Figure and Evaluation of Exposure Pathways Table




ENSAFE

CHECKED BY: TLS

PROJECT NO. 0888820335

Appendix B

DATE: May 2017

**CONCEPTUAL SITE MODEL**

**FIGURE**

**B-1**

**Appendix C**
**Waste Manifests**

**NON-HAZARDOUS WASTE MANIFEST**

| 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number |
|---|---|---|---|
| NOT REQUIRED | 1 | 866-423-6060 | 0530320 |

**GENERATOR**

5. Generator's Name and Mailing Address
Los Angeles Unified School District
333 S. Beaudry Ave., 21st Floor, Los Angeles, CA 90017
Generator's Phone: 213-241-3199

Generator's Site Address (if different than mailing address)
San Pedro High School
1001 W. 15th Street
San Pedro, CA 90731

6. Transporter 1 Company Name: American Integrated Services, Inc.
U.S. EPA ID Number: CAR000146338

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Crosby & Overton, Inc.
1630 W. 17th Street, Long Beach, CA 90813
562-432-5445
Facility's Phone:
U.S. EPA ID Number: CAD028409019

| | 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | |
|---|---|---|---|---|---|---|
| 1. | Non-Hazardous Waste, Liquid (Decon Water) | 1 | DM | 55 | G | |
| 2. | | | | | | |
| 3. | | | | | | |
| 4. | | | | | | |

13. Special Handling Instructions and Additional Information
Wear proper PPE while handling. Weight or volumes are approximate.
Profile#: 27578
Project #: 36283

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year
Dave Hobson for LAUSD | | 2 | 17 | 17

**INT'L**

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

**TRANSPORTER**

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Eddie CALDERON | Signature | Month: 2 | Day: 17 | Year: 17

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

**DESIGNATED FACILITY**

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | D

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INIT

# Manifest

## SOIL SAFE OF CA – TPST
Non-Hazardous Soils

↓ Manifest # ↓

| Date of Shipment: | Responsible for Payment: | Transport Truck #: | Facility #: | Approval Number: | Load # |
|---|---|---|---|---|---|
| | Transporter | | A07 | 46942 | 01011 |

**Generator and/or Consultant**

| | | |
|---|---|---|
| Generator's Name and Billing Address:<br>Los Angeles Unified School District<br>333 S. Beaudry Ave., 21st Floor<br>Los Angeles, CA 90017 | Generator's Phone #: | |
| | Person to Contact: | |
| | FAX#: | Customer Account Number |
| Consultant's Name and Billing Address: | Consultant's Phone #: | |
| | Person to Contact: | |
| | FAX#: | Customer Account Number |
| Generation Site (Transport from): *(name & address)*<br>San Pedro High School<br>1001 W. 15th Street<br>San Pedro, CA 90731 | Site Phone #: | |
| | Person to Contact: | |
| | FAX#: | |
| Designated Facility (Transport to): *(name & address)*<br>Soil Safe<br>12328 Hibiscus Rd.<br>Adelanto, California 92301-1700 | Facility Phone #:<br>(800) 862-8001 | |
| | Person to Contact:<br>Joe Provansal | |
| | FAX#:<br>(760) 246-8004 | |
| Transporter Name and Mailing Address:<br>American Integrated Services, Inc.<br>P.O. Box 92316<br>Long Beach, CA 90809-2316 | Transporter's Phone #:<br>(310 522- 1166 | CAR000148338 |
| | Person to Contact:<br>John Farmer | |
| | FAX#:<br>(310) 522-0474 | Customer Account Number<br>7704908 |

| Description of Soil | Moisture Content | Contaminated by: | Approx. Qty: | Description of Delivery | Gross Weight | Tare Weight | Net Weight |
|---|---|---|---|---|---|---|---|
| Sand ☐ Organic ☐<br>Clay ☐ Other ☐ | 0 - 10% ☐<br>10 - 20% ☐<br>20% - over ☐ | Gas ☐<br>Diesel ☐<br>Other ☐ | 3 | Soil | | | |
| Sand ☐ Organic ☐<br>Clay ☐ Other ☐ | 0 - 10% ☐<br>10 - 20% ☐<br>20% - over ☐ | Gas ☐<br>Diesel ☐<br>Other ☐ | | | | | |

List any exception to items listed above: AIS Project # 36293 — Scale Ticket #

*Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils descried in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.*

| Print or Type Name: Generator ☐ Consultant ☐ | Signature and date: | Month | Day | Year |
|---|---|---|---|---|
| Diane T Robinson for LAUSD | | 2 | 17 | 17 |

**Transporter**

*Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.*

| Print or Type Name: | Signature and date: | Month | Day | Year |
|---|---|---|---|---|
| Edgar CALDERON | | 2 | 17 | 17 |

**Recycling Facility**

Discrepancies:

*Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:*

| Print or Type Name: | Signature and date: |
|---|---|
| J. Provansal | |

Please print or type.

GENERATOR/CONSULTANTS COPY

# American Integrated Services, Inc.

P.O. BOX 92316 LONG BEACH, CA. 90809
Office 310-522-1168 Fax 310-522-1182
24 Hour Emergency Hotline 888-423-6060

## TRANSPORTATION WORK ORDER

| | | |
|---|---|---|
| **CUSTOMER NAME:** E2MANAGE TECH | **JOB #** 36293 | **DATE:** FRI 2-17-17 |
| **JOBSITE:** SAN PEDRO HIGH SCHOOL | | **CONTACT:** |
| **ADDRESS:** 1004 W. 15TH ST. | | **CUSTOMER P.O.:** |
| **CITY:** SAN PEDRO, CA 90732 | | |

**EQUIPMENT:**
☐ LOWBOY
☐ ROLL – OFF ☒ BOX VAN
☐ VAC TRUCK ☐ STAKE BED
☐ _____
**TRUCK #** 521
**TRAILER #** _____

**Manifest# :** 05530320 46942

**Disposal Location:** CROSBY & OVERTON

| Bin #: | Pickup / Deliver √ | Return / Destination √ | BIN LINERS: ☐ USED ___How many ☐ NOT USED |
|---|---|---|---|
| | | | Tarps: ☐ Yes ☐ No |

| On Site Start | On Site Stop | DESCRIPTION |
|---|---|---|
| | | P/U 3 DRUMS NON-HAZ. WASTE (SOLIDS) |
| | | P/U 1 DRUM NON-HAZ. WASTE (LIQUID) |
| | | FOR DISPOSAL |

| REPORTING TIME | ENDING TIME | TOTAL TIME | DEDUCTIBLE TIME | NET TIME |
|---|---|---|---|---|
| | | | | |

X Ed-Cal- _____
DRIVER

X _____
CUSTOMER SIGNATURE

White - Billing • Green - Time Sheet • Yellow - Office • Pink - Driver • Gold - Customer

**NON-HAZARDOUS WASTE MANIFEST**

| 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number |
|---|---|---|---|
| NOT REQUIRED | 1 | 888-423-6060 | 0533732 |

**GENERATOR**

5. Generator's Name and Mailing Address
Long Beach Unified School District
333 S. Beaudry Ave., 21st Floor, Los Angeles, CA 90017
Generator's Phone: 213-241-3199

Generator's Site Address (if different than mailing address)
San Pedro High School
1001 W. 15th Street
San Pedro, CA 90731

6. Transporter 1 Company Name
American Integrated Services, Inc.
U.S. EPA ID Number: CAR000146338

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Crosby & Overton, Inc.
1630 W. 17th Street, Long Beach, CA 90813
562-432-5445
Facility's Phone:
U.S. EPA ID Number: CAD028409019

| | 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | |
|---|---|---|---|---|---|---|
| 1. | Non-Hazardous Waste, Liquid | 1 | DM | 10 | G | |
| 2. | | | | | | |
| 3. | | | | | | |
| 4. | | | | | | |

13. Special Handling Instructions and Additional Information
Wear proper PPE while handling. Weight or volumes are approximate.
Profile#: 27578
Project #: 36293

**14. GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Dave T. Cross | Signature | Month: 05 | Day: 16 | Year: 17

**INT'L**

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

**TRANSPORTER**

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ben Burgos | Signature | Month: 5 | Day: 15 | Year: 17

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

**DESIGNATED FACILITY**

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year



GENERATOR'S/SHIPPER'S INITIAL COPY

# Manifest

## SOIL SAFE OF CA – TPST
Non-Hazardous Soils

↓ Manifest # ↓

| Date of Shipment: | Responsible for Payment: | Transport Truck #: | Facility #: | Approval Number: | Load # |
|---|---|---|---|---|---|
| | Transporter | | AIS | 46942 | 0012 |

**Generator and/or Consultant**

| | | |
|---|---|---|
| Generator's Name and Billing Address:<br>Los Angeles Unified School District<br>333 S. Beaudry Ave., 21st Floor<br>Los Angeles, CA 90017 | Generator's Phone #:<br>Person to Contact:<br>FAX#: | Customer Account Number |
| Consultant's Name and Billing Address: | Consultant's Phone #:<br>Person to Contact:<br>FAX#: | Customer Account Number |
| Generation Site (Transport from): *(name & address)*<br>San Pedro High School<br>1001 W. 15th Street<br>San Pedro, CA 90731 | Site Phone #:<br>Person to Contact:<br>FAX#: | |
| Designated Facility (Transport to): *(name & address)*<br>Soil Safe<br>12328 Hibiscus Rd.<br>Adelanto, California 92301-1700 | Facility Phone #:<br>(800) 862-8001<br>Person to Contact:<br>Joe Provensal<br>FAX#:<br>(760) 246-8004 | |
| Transporter Name and Mailing Address:<br>American Integrated Services, Inc.<br>P.O. Box 92316<br>Long Beach, CA 90809-2316 | Transporter's Phone #:<br>(310 522- 1106<br>Person to Contact:<br>John Farmer<br>FAX#:<br>(310) 522-0474 | CAR000146338<br>Customer Account Number<br>7704908 |

| Description of Soil | Moisture Content | Contaminated by: | Approx. Qty: | Description of Delivery | Gross Weight | Tare Weight | Net Weight |
|---|---|---|---|---|---|---|---|
| Sand ❑ Organic ❑<br>Clay ❑ Other ❑ | 0 - 10% ❑<br>10 - 20% ❑<br>20% - over ❑ | Gas ❑<br>Diesel ❑<br>Other ❑ | 1 | | | | |
| Sand ❑ Organic ❑<br>Clay ❑ Other ❑ | 0 - 10% ❑<br>10 - 20% ❑<br>20% - over ❑ | Gas ❑<br>Diesel ❑<br>Other ❑ | | | | | |

List any exception to items listed above: AIS Project # 36203 — Scale Ticket #

*Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils descried in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.*

| Print or Type Name: Generator ❑ Consultant ❑ | Signature and date: | Month | Day | Year |
|---|---|---|---|---|
| Dave Robinson for Lisa | | 05 | 15 | 17 |

**Transporter**

*Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.*

| Print or Type Name: | Signature and date: | Month | Day | Year |
|---|---|---|---|---|
| Ben Bulgos | | 5 | 15 | 17 |

**Recycling Facility**

Discrepancies:

*Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:*

| Print or Type Name: | Signature and date: |
|---|---|
| J. Provensal | |

Please print or type.

GENERATOR/CONSULTANTS COPY

# Appendix D
# Laboratory Analytical Results

Date of Report: 09/02/2016

Travis Stravasnik

E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

| | |
|---|---|
| Client Project: | 16-201-005 |
| BCL Project: | LAUSD - San Pedro HS |
| BCL Work Order: | 1621610 |
| Invoice ID: | B243981, B245221 |

Enclosed are the results of analyses for samples received by the laboratory on 8/4/2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature



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BC Laboratories, Inc.

# Chain of Custody Form

Page 1 of 1

| | |
|---|---|
| Report To: Client: E2 Management | Project #: 16-201-005 |
| Attn: | Project Name: CNSD - San Ramon |
| Street Address: 5001 Airport Plaza Drive #260 | |
| City, State, Zip: Long Beach CA | Sampler(s): BV/KL |
| Phone: 562-740-1066 Fax: | |
| Email Address: tstravasnik@e2mt.com | |
| Work Order #: 16-21610 | |

Analysis Requested

| Sample # | Description | Date Sampled | Time Sampled | Lead - EPA 6010B | Arsenic - EPA 6010B | OCPs - EPA 8081 | PCBs EPA 8082 | TPH Cgas-diesel(il) SGC | VOCs EPA 8260B | CAM 17 Tot Metals | Soil | Sludge | Drinking Water | Ground Water | Waste Water | Other | Turnaround # of work days* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -1 | WS - drum - comp | 8/3/16 | 1458 | | | X | | X | X | X | X | | | | | | |
| -2 | WW - drum - comp | 8/3/16 | 1530 | | | X | | X | X | X | | X | | | | | |

Comments:

Are there any tests with holding times less than or equal to 48 hours? ☐ Yes ☐ No

* Standard Turnaround = 10 work days

Notes

CHK BY: JVS

DISTRIBUTION: ACCOUNT LAB MT

SUB-OUT ☐

**Billing** ☒ Same as above

Client:

Address:

City: State Zip

Attn:

PO#:

EDF Required? Geotracker ☐ Yes ☐ No

Send Copy to State of CA? (EDT) ☐ Yes ☐ No

Global ID (Needed for EDF)

System # (Needed for EDT)

| | Relinquished By | Date | Time | Received By | Date | Time |
|---|---|---|---|---|---|---|
| 1. | | 8/3/16 | | | 8/4/16 | 2 |
| 2. | | 8/4/16 | 5 | | 8-4-16 | 1700 |
| 3. | | 8-4-16 | 1900 | | 8.4.16 | 1900 |

BC Laboratories, Inc. – 4100 Atlas Ct. – Bakersfield, CA 93308 – 661.327.4911 – Fax: 661.327.1918 – www.bclabs.com

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**Chain of Custody and Cooler Receipt Form for 1621610 Page 2 of 2**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 16-21610

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☑ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☑ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☑ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | Sludge W / (S) ~ 1 |

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: Amber Thermometer ID: 208 Date/Time 8.4 1855

Temperature: (A) 0.0 °C / (C) 0.0 °C Analyst Init ARL

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | D | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | ABC | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 8081 066 | | E | | | | | | | | |
| QT EPA 515.1/8150 8015 060 | | F | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | E | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | ABCD | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: KM Date/Time: 8-5-16 1055

Rev 21 05/23/2016

[S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 20]

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1621610-01** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 14:58 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | WS-drum-comp | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621610-02** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 15:30 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | WW-drum-comp | **Lab Matrix:** | Water |
| | **Sampled By:** | --- | **Sample Type:** | Wastewater |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621610-01 | **Client Sample Name:** WS-drum-comp, 8/3/2016 2:58:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0050 | 0.00055 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0050 | 0.00064 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0050 | 0.00071 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0050 | 0.00059 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0050 | 0.00034 | EPA-8081A | 4.0 | A10 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.50 | 0.015 | EPA-8081A | 2.5 | A10 | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0050 | 0.00085 | EPA-8081A | 1.0 | A10 | 1 |
| **4,4'-DDE** | **0.0012** | **mg/kg** | **0.0050** | **0.00083** | **EPA-8081A** | 1.0 | **J,A10** | 1 |
| **4,4'-DDT** | **0.0014** | **mg/kg** | **0.0050** | **0.00078** | **EPA-8081A** | 1.0 | **J,A10** | 1 |
| Dieldrin | ND | mg/kg | 0.0050 | 0.00070 | EPA-8081A | 8.0 | A10 | 1 |
| Endosulfan I | ND | mg/kg | 0.0050 | 0.00087 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0050 | 0.0011 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0050 | 0.00099 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0050 | 0.00087 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0050 | 0.00097 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0050 | 0.00057 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0050 | 0.00078 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0050 | 0.0011 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.50 | 0.013 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 77.0 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 49.8 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/09/16 | 08/11/16 21:02 | HKS | GC-17 | 10 | BZH0983 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

**BCL Sample ID:** 1621610-01 | **Client Sample Name:** WS-drum-comp, 8/3/2016 2:58:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Benzene** | **0.0041** | **mg/kg** | **0.0050** | **0.0013** | **EPA-8260B** | | **J** | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| **Chlorobenzene** | **0.0027** | **mg/kg** | **0.0050** | **0.0013** | **EPA-8260B** | | **J** | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

**BCL Sample ID:** 1621610-01 | **Client Sample Name:** WS-drum-comp, 8/3/2016 2:58:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| **Toluene** | **0.0029** | **mg/kg** | **0.0050** | **0.0012** | **EPA-8260B** | | **J** | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 130 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | S09 | 1 |
| Toluene-d8 (Surrogate) | 106 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 95.2 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

**BCL Sample ID:** 1621610-01 | **Client Sample Name:** WS-drum-comp, 8/3/2016 2:58:00PM

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 08/08/16 | 08/08/16 10:17 | ADC | MS-V2 | 1.082 | BZH0683 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Petroleum Hydrocarbons

**BCL Sample ID:** 1621610-01 | **Client Sample Name:** WS-drum-comp, 8/3/2016 2:58:00PM

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Gasoline | ND | mg/kg | 40 | 10 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 20 | 2.4 | EPA-8015B/FFP | ND | | 1 |
| **TPH - Motor Oil** | **130** | **mg/kg** | **40** | **13** | **EPA-8015B/FFP** | ND | | 1 |
| Tetracosane (Surrogate) | 37.5 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8015B/FFP | 08/09/16 | 08/16/16 15:33 | AS1 | GC-2 | 2 | BZH1074 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# WET Test (STLC)

**BCL Sample ID:** 1621610-01 | **Client Sample Name:** WS-drum-comp, 8/3/2016 2:58:00PM

| Constituent | Result | Units | PQL | MDL | Method | STLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Chromium** | **0.11** | **mg/L** | **0.10** | **0.0092** | **EPA-6010B** | 5.0 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/01/16 | 09/02/16 13:54 | JRG | PE-OP2 | 1 | BZI0197 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621610-01 | **Client Sample Name:** WS-drum-comp, 8/3/2016 2:58:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| **Arsenic** | **14** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Barium** | **320** | **mg/kg** | **0.50** | **0.18** | **EPA-6010B** | 10000 | | 1 |
| **Beryllium** | **0.34** | **mg/kg** | **0.50** | **0.047** | **EPA-6010B** | 75 | **J** | 1 |
| **Cadmium** | **2.5** | **mg/kg** | **0.50** | **0.052** | **EPA-6010B** | 100 | | 1 |
| **Chromium** | **64** | **mg/kg** | **0.50** | **0.050** | **EPA-6010B** | 2500 | | 1 |
| **Cobalt** | **4.5** | **mg/kg** | **2.5** | **0.098** | **EPA-6010B** | 8000 | | 1 |
| **Copper** | **40** | **mg/kg** | **1.0** | **0.050** | **EPA-6010B** | 2500 | | 1 |
| **Lead** | **20** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |
| **Mercury** | **0.078** | **mg/kg** | **0.16** | **0.041** | **EPA-7471A** | 20 | **J** | 2 |
| **Molybdenum** | **4.2** | **mg/kg** | **2.5** | **0.050** | **EPA-6010B** | 3500 | | 1 |
| **Nickel** | **51** | **mg/kg** | **0.50** | **0.15** | **EPA-6010B** | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| **Silver** | **0.47** | **mg/kg** | **0.50** | **0.067** | **EPA-6010B** | 500 | **J** | 1 |
| Thallium | ND | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | | 1 |
| **Vanadium** | **130** | **mg/kg** | **0.50** | **0.11** | **EPA-6010B** | 2400 | | 1 |
| **Zinc** | **80** | **mg/kg** | **2.5** | **0.087** | **EPA-6010B** | 5000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/08/16 | 08/08/16 15:42 | JCC | PE-OP3 | 1 | BZH0716 |
| 2 | EPA-7471A | 08/08/16 | 08/09/16 12:30 | MEV | CETAC2 | 1.025 | BZH0745 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621610-02 | **Client Sample Name:** WW-drum-comp, 8/3/2016 3:30:00PM

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | ug/L | 0.0050 | 0.0020 | EPA-8081A | ND | | 1 |
| alpha-BHC | ND | ug/L | 0.0050 | 0.0018 | EPA-8081A | ND | | 1 |
| beta-BHC | ND | ug/L | 0.0050 | 0.0038 | EPA-8081A | ND | | 1 |
| delta-BHC | ND | ug/L | 0.0050 | 0.0017 | EPA-8081A | ND | | 1 |
| gamma-BHC (Lindane) | ND | ug/L | 0.0050 | 0.0019 | EPA-8081A | ND | | 1 |
| Chlordane (Technical) | ND | ug/L | 0.50 | 0.085 | EPA-8081A | ND | | 1 |
| 4,4'-DDD | ND | ug/L | 0.0050 | 0.0018 | EPA-8081A | ND | | 1 |
| 4,4'-DDE | ND | ug/L | 0.0050 | 0.0018 | EPA-8081A | ND | | 1 |
| 4,4'-DDT | ND | ug/L | 0.0050 | 0.0018 | EPA-8081A | ND | | 1 |
| Dieldrin | ND | ug/L | 0.0050 | 0.0025 | EPA-8081A | ND | | 1 |
| Endosulfan I | ND | ug/L | 0.0050 | 0.0027 | EPA-8081A | ND | | 1 |
| Endosulfan II | ND | ug/L | 0.0050 | 0.0025 | EPA-8081A | ND | | 1 |
| Endosulfan sulfate | ND | ug/L | 0.0050 | 0.0024 | EPA-8081A | ND | | 1 |
| Endrin | ND | ug/L | 0.0050 | 0.0033 | EPA-8081A | ND | | 1 |
| Endrin aldehyde | ND | ug/L | 0.010 | 0.0036 | EPA-8081A | ND | | 1 |
| Heptachlor | ND | ug/L | 0.0050 | 0.0032 | EPA-8081A | ND | | 1 |
| Heptachlor epoxide | ND | ug/L | 0.0050 | 0.0048 | EPA-8081A | ND | | 1 |
| Methoxychlor | ND | ug/L | 0.0050 | 0.0035 | EPA-8081A | ND | | 1 |
| Toxaphene | ND | ug/L | 2.0 | 0.20 | EPA-8081A | ND | | 1 |
| TCMX (Surrogate) | 72.0 | % | 40 - 140 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 69.8 | % | 40 - 120 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/09/16 | 08/12/16 17:45 | HKS | GC-17 | 1 | BZH1274 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1621610-02 | **Client Sample Name:** WW-drum-comp, 8/3/2016 3:30:00PM

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | ug/L | 0.50 | 0.083 | EPA-8260B | ND | | 1 |
| Bromobenzene | ND | ug/L | 0.50 | 0.13 | EPA-8260B | ND | | 1 |
| Bromochloromethane | ND | ug/L | 0.50 | 0.24 | EPA-8260B | ND | | 1 |
| Bromodichloromethane | ND | ug/L | 0.50 | 0.14 | EPA-8260B | ND | | 1 |
| Bromoform | ND | ug/L | 0.50 | 0.27 | EPA-8260B | ND | | 1 |
| Bromomethane | ND | ug/L | 1.0 | 0.25 | EPA-8260B | ND | | 1 |
| n-Butylbenzene | ND | ug/L | 0.50 | 0.11 | EPA-8260B | ND | | 1 |
| sec-Butylbenzene | ND | ug/L | 0.50 | 0.15 | EPA-8260B | ND | | 1 |
| tert-Butylbenzene | ND | ug/L | 0.50 | 0.13 | EPA-8260B | ND | | 1 |
| Carbon tetrachloride | ND | ug/L | 0.50 | 0.18 | EPA-8260B | ND | | 1 |
| Chlorobenzene | ND | ug/L | 0.50 | 0.093 | EPA-8260B | ND | | 1 |
| Chloroethane | ND | ug/L | 0.50 | 0.14 | EPA-8260B | ND | | 1 |
| Chloroform | ND | ug/L | 0.50 | 0.12 | EPA-8260B | ND | | 1 |
| Chloromethane | ND | ug/L | 0.50 | 0.14 | EPA-8260B | ND | | 1 |
| 2-Chlorotoluene | ND | ug/L | 0.50 | 0.20 | EPA-8260B | ND | | 1 |
| 4-Chlorotoluene | ND | ug/L | 0.50 | 0.15 | EPA-8260B | ND | | 1 |
| Dibromochloromethane | ND | ug/L | 0.50 | 0.13 | EPA-8260B | ND | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 1.0 | 0.44 | EPA-8260B | ND | | 1 |
| 1,2-Dibromoethane | ND | ug/L | 0.50 | 0.16 | EPA-8260B | ND | | 1 |
| Dibromomethane | ND | ug/L | 0.50 | 0.24 | EPA-8260B | ND | | 1 |
| 1,2-Dichlorobenzene | ND | ug/L | 0.50 | 0.072 | EPA-8260B | ND | | 1 |
| 1,3-Dichlorobenzene | ND | ug/L | 0.50 | 0.15 | EPA-8260B | ND | | 1 |
| 1,4-Dichlorobenzene | ND | ug/L | 0.50 | 0.062 | EPA-8260B | ND | | 1 |
| Dichlorodifluoromethane | ND | ug/L | 0.50 | 0.099 | EPA-8260B | ND | | 1 |
| 1,1-Dichloroethane | ND | ug/L | 0.50 | 0.11 | EPA-8260B | ND | | 1 |
| 1,2-Dichloroethane | ND | ug/L | 0.50 | 0.17 | EPA-8260B | ND | | 1 |
| 1,1-Dichloroethene | ND | ug/L | 0.50 | 0.18 | EPA-8260B | ND | | 1 |
| cis-1,2-Dichloroethene | ND | ug/L | 0.50 | 0.085 | EPA-8260B | ND | | 1 |
| trans-1,2-Dichloroethene | ND | ug/L | 0.50 | 0.15 | EPA-8260B | ND | | 1 |
| 1,2-Dichloropropane | ND | ug/L | 0.50 | 0.13 | EPA-8260B | ND | | 1 |
| 1,3-Dichloropropane | ND | ug/L | 0.50 | 0.086 | EPA-8260B | ND | | 1 |
| 2,2-Dichloropropane | ND | ug/L | 0.50 | 0.13 | EPA-8260B | ND | | 1 |
| 1,1-Dichloropropene | ND | ug/L | 0.50 | 0.085 | EPA-8260B | ND | | 1 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1621610-02 | **Client Sample Name:** WW-drum-comp, 8/3/2016 3:30:00PM

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | ug/L | 0.50 | 0.14 | EPA-8260B | ND | | 1 |
| trans-1,3-Dichloropropene | ND | ug/L | 0.50 | 0.079 | EPA-8260B | ND | | 1 |
| Ethylbenzene | ND | ug/L | 0.50 | 0.098 | EPA-8260B | ND | | 1 |
| Hexachlorobutadiene | ND | ug/L | 0.50 | 0.17 | EPA-8260B | ND | | 1 |
| Isopropylbenzene | ND | ug/L | 0.50 | 0.14 | EPA-8260B | ND | | 1 |
| p-Isopropyltoluene | ND | ug/L | 0.50 | 0.12 | EPA-8260B | ND | | 1 |
| Methylene chloride | ND | ug/L | 1.0 | 0.48 | EPA-8260B | ND | | 1 |
| Methyl t-butyl ether | ND | ug/L | 0.50 | 0.11 | EPA-8260B | ND | | 1 |
| Naphthalene | ND | ug/L | 0.50 | 0.36 | EPA-8260B | ND | | 1 |
| n-Propylbenzene | ND | ug/L | 0.50 | 0.11 | EPA-8260B | ND | | 1 |
| Styrene | ND | ug/L | 0.50 | 0.068 | EPA-8260B | ND | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 0.50 | 0.18 | EPA-8260B | ND | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 0.50 | 0.17 | EPA-8260B | ND | | 1 |
| Tetrachloroethene | ND | ug/L | 0.50 | 0.13 | EPA-8260B | ND | | 1 |
| **Toluene** | **0.13** | **ug/L** | **0.50** | **0.093** | **EPA-8260B** | ND | **J** | 1 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 0.50 | 0.16 | EPA-8260B | ND | | 1 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 0.50 | 0.19 | EPA-8260B | ND | | 1 |
| 1,1,1-Trichloroethane | ND | ug/L | 0.50 | 0.11 | EPA-8260B | ND | | 1 |
| 1,1,2-Trichloroethane | ND | ug/L | 0.50 | 0.16 | EPA-8260B | ND | | 1 |
| Trichloroethene | ND | ug/L | 0.50 | 0.085 | EPA-8260B | ND | | 1 |
| Trichlorofluoromethane | ND | ug/L | 0.50 | 0.13 | EPA-8260B | ND | | 1 |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 0.24 | EPA-8260B | ND | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | ug/L | 0.50 | 0.15 | EPA-8260B | ND | | 1 |
| 1,2,4-Trimethylbenzene | ND | ug/L | 0.50 | 0.12 | EPA-8260B | ND | | 1 |
| 1,3,5-Trimethylbenzene | ND | ug/L | 0.50 | 0.12 | EPA-8260B | ND | | 1 |
| Vinyl chloride | ND | ug/L | 0.50 | 0.12 | EPA-8260B | ND | | 1 |
| Total Xylenes | ND | ug/L | 1.0 | 0.36 | EPA-8260B | ND | | 1 |
| p- & m-Xylenes | ND | ug/L | 0.50 | 0.28 | EPA-8260B | ND | | 1 |
| o-Xylene | ND | ug/L | 0.50 | 0.082 | EPA-8260B | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 96.4 | % | 75 - 125 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 98.9 | % | 80 - 120 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 83.9 | % | 80 - 120 (LCL - UCL) | | EPA-8260B | | | 1 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1621610-02 | **Client Sample Name:** WW-drum-comp, 8/3/2016 3:30:00PM

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 08/10/16 | 08/11/16 23:45 | JPT | MS-V13 | 1 | BZH1032 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Petroleum Hydrocarbons

**BCL Sample ID:** 1621610-02 | **Client Sample Name:** WW-drum-comp, 8/3/2016 3:30:00PM

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Gasoline | ND | ug/L | 5000 | 2000 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | ug/L | 2000 | 340 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | ug/L | 5000 | 660 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 55.3 | % | 37 - 134 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8015B/FFP | 08/10/16 | 08/15/16 21:00 | AS1 | GC-13 | 10 | BZH1208 |

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Long Beach, CA 90815

**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Metals Analysis

**BCL Sample ID:** 1621610-02 | **Client Sample Name:** WW-drum-comp, 8/3/2016 3:30:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Total Antimony | ND | ug/L | 100 | 8.5 | EPA-6010B | 500000 | | 1 |
| **Total Arsenic** | **56** | **ug/L** | **50** | **7.8** | **EPA-6010B** | 500000 | | 1 |
| **Total Barium** | **1900** | **ug/L** | **10** | **3.5** | **EPA-6010B** | 10000000 | | 1 |
| **Total Beryllium** | **2.8** | **ug/L** | **10** | **0.50** | **EPA-6010B** | 75000 | **J** | 1 |
| **Total Cadmium** | **17** | **ug/L** | **10** | **1.1** | **EPA-6010B** | 100000 | | 1 |
| **Total Chromium** | **360** | **ug/L** | **10** | **1.1** | **EPA-6010B** | 2500000 | | 1 |
| **Total Cobalt** | **46** | **ug/L** | **50** | **1.3** | **EPA-6010B** | 8000000 | **J** | 1 |
| **Total Copper** | **250** | **ug/L** | **10** | **1.1** | **EPA-6010B** | 2500000 | | 1 |
| **Total Lead** | **110** | **ug/L** | **50** | **4.0** | **EPA-6010B** | 1000000 | | 1 |
| **Total Mercury** | **0.62** | **ug/L** | **0.20** | **0.030** | **EPA-7470A** | 20000 | | 2 |
| **Total Molybdenum** | **24** | **ug/L** | **50** | **1.2** | **EPA-6010B** | 3500000 | **J** | 1 |
| **Total Nickel** | **350** | **ug/L** | **10** | **2.0** | **EPA-6010B** | 2000000 | | 1 |
| Total Selenium | ND | ug/L | 100 | 15 | EPA-6010B | 100000 | | 1 |
| **Total Silver** | **3.3** | **ug/L** | **10** | **1.9** | **EPA-6010B** | 500000 | **J** | 1 |
| Total Thallium | ND | ug/L | 100 | 24 | EPA-6010B | 700000 | | 3 |
| **Total Vanadium** | **620** | **ug/L** | **10** | **2.2** | **EPA-6010B** | 2400000 | | 1 |
| **Total Zinc** | **580** | **ug/L** | **50** | **2.3** | **EPA-6010B** | 5000000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/10/16 | 08/11/16 15:54 | JCC | PE-OP3 | 1 | BZH0978 |
| 2 | EPA-7470A | 08/11/16 | 08/11/16 13:54 | MEV | CETAC2 | 1 | BZH1123 |
| 3 | EPA-6010B | 08/10/16 | 08/16/16 12:00 | JCC | PE-OP3 | 1 | BZH0978 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0983** | | | | | | |
| Aldrin | BZH0983-BLK1 | ND | mg/kg | 0.00050 | 0.000055 | |
| alpha-BHC | BZH0983-BLK1 | ND | mg/kg | 0.00050 | 0.000064 | |
| beta-BHC | BZH0983-BLK1 | ND | mg/kg | 0.00050 | 0.000071 | |
| delta-BHC | BZH0983-BLK1 | ND | mg/kg | 0.00050 | 0.000059 | |
| gamma-BHC (Lindane) | BZH0983-BLK1 | ND | mg/kg | 0.00050 | 0.000034 | |
| Chlordane (Technical) | BZH0983-BLK1 | ND | mg/kg | 0.050 | 0.0015 | |
| 4,4'-DDD | BZH0983-BLK1 | ND | mg/kg | 0.00050 | 0.000085 | |
| 4,4'-DDE | BZH0983-BLK1 | ND | mg/kg | 0.00050 | 0.000083 | |
| 4,4'-DDT | BZH0983-BLK1 | ND | mg/kg | 0.00050 | 0.000078 | |
| Dieldrin | BZH0983-BLK1 | ND | mg/kg | 0.00050 | 0.000070 | |
| Endosulfan I | BZH0983-BLK1 | ND | mg/kg | 0.00050 | 0.000087 | |
| Endosulfan II | BZH0983-BLK1 | ND | mg/kg | 0.00050 | 0.00011 | |
| Endosulfan sulfate | BZH0983-BLK1 | ND | mg/kg | 0.00050 | 0.000099 | |
| Endrin | BZH0983-BLK1 | ND | mg/kg | 0.00050 | 0.000087 | |
| Endrin aldehyde | BZH0983-BLK1 | ND | mg/kg | 0.00050 | 0.000097 | |
| Heptachlor | BZH0983-BLK1 | ND | mg/kg | 0.00050 | 0.000057 | |
| Heptachlor epoxide | BZH0983-BLK1 | ND | mg/kg | 0.00050 | 0.000078 | |
| Methoxychlor | BZH0983-BLK1 | ND | mg/kg | 0.00050 | 0.00011 | |
| Toxaphene | BZH0983-BLK1 | ND | mg/kg | 0.050 | 0.0013 | |
| **TCMX (Surrogate)** | **BZH0983-BLK1** | **82.7** | % | **20 - 130 (LCL - UCL)** | | |
| **Decachlorobiphenyl (Surrogate)** | **BZH0983-BLK1** | **74.2** | % | **40 - 130 (LCL - UCL)** | | |
| **QC Batch ID: BZH1274** | | | | | | |
| Aldrin | BZH1274-BLK1 | ND | ug/L | 0.0050 | 0.0020 | |
| alpha-BHC | BZH1274-BLK1 | ND | ug/L | 0.0050 | 0.0018 | |
| beta-BHC | BZH1274-BLK1 | ND | ug/L | 0.0050 | 0.0038 | |
| delta-BHC | BZH1274-BLK1 | ND | ug/L | 0.0050 | 0.0017 | |
| gamma-BHC (Lindane) | BZH1274-BLK1 | ND | ug/L | 0.0050 | 0.0019 | |
| Chlordane (Technical) | BZH1274-BLK1 | ND | ug/L | 0.50 | 0.085 | |
| 4,4'-DDD | BZH1274-BLK1 | ND | ug/L | 0.0050 | 0.0018 | |
| 4,4'-DDE | BZH1274-BLK1 | ND | ug/L | 0.0050 | 0.0018 | |
| 4,4'-DDT | BZH1274-BLK1 | ND | ug/L | 0.0050 | 0.0018 | |
| Dieldrin | BZH1274-BLK1 | ND | ug/L | 0.0050 | 0.0025 | |
| Endosulfan I | BZH1274-BLK1 | ND | ug/L | 0.0050 | 0.0027 | |

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E2 Managetech
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**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1274** | | | | | | |
| Endosulfan II | BZH1274-BLK1 | ND | ug/L | 0.0050 | 0.0025 | |
| Endosulfan sulfate | BZH1274-BLK1 | ND | ug/L | 0.0050 | 0.0024 | |
| Endrin | BZH1274-BLK1 | ND | ug/L | 0.0050 | 0.0033 | |
| Endrin aldehyde | BZH1274-BLK1 | ND | ug/L | 0.010 | 0.0036 | |
| Heptachlor | BZH1274-BLK1 | ND | ug/L | 0.0050 | 0.0032 | |
| Heptachlor epoxide | BZH1274-BLK1 | ND | ug/L | 0.0050 | 0.0048 | |
| Methoxychlor | BZH1274-BLK1 | ND | ug/L | 0.0050 | 0.0035 | |
| Toxaphene | BZH1274-BLK1 | ND | ug/L | 2.0 | 0.20 | |
| **TCMX (Surrogate)** | **BZH1274-BLK1** | **79.9** | % | **40 - 140 (LCL - UCL)** | | |
| **Decachlorobiphenyl (Surrogate)** | **BZH1274-BLK1** | **83.9** | % | **40 - 120 (LCL - UCL)** | | |

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**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0983** | | | | | | | | | | |
| Aldrin | BZH0983-BS1 | LCS | 0.0040593 | 0.0049180 | mg/kg | 82.5 | | 70 - 130 | | |
| gamma-BHC (Lindane) | BZH0983-BS1 | LCS | 0.0041738 | 0.0049180 | mg/kg | 84.9 | | 60 - 140 | | |
| 4,4'-DDT | BZH0983-BS1 | LCS | 0.0039820 | 0.0049180 | mg/kg | 81.0 | | 60 - 140 | | |
| Dieldrin | BZH0983-BS1 | LCS | 0.0042597 | 0.0049180 | mg/kg | 86.6 | | 70 - 130 | | |
| Endrin | BZH0983-BS1 | LCS | 0.0050525 | 0.0049180 | mg/kg | 103 | | 60 - 140 | | |
| Heptachlor | BZH0983-BS1 | LCS | 0.0040620 | 0.0049180 | mg/kg | 82.6 | | 60 - 140 | | |
| TCMX (Surrogate) | BZH0983-BS1 | LCS | 0.0076066 | 0.0098361 | mg/kg | 77.3 | | 20 - 130 | | |
| Decachlorobiphenyl (Surrogate) | BZH0983-BS1 | LCS | 0.013525 | 0.019672 | mg/kg | 68.8 | | 40 - 130 | | |
| **QC Batch ID: BZH1274** | | | | | | | | | | |
| Aldrin | BZH1274-BS1 | LCS | 0.11361 | 0.15000 | ug/L | 75.7 | | 50 - 120 | | |
| gamma-BHC (Lindane) | BZH1274-BS1 | LCS | 0.11545 | 0.15000 | ug/L | 77.0 | | 60 - 130 | | |
| 4,4'-DDT | BZH1274-BS1 | LCS | 0.11863 | 0.15000 | ug/L | 79.1 | | 60 - 130 | | |
| Dieldrin | BZH1274-BS1 | LCS | 0.13425 | 0.15000 | ug/L | 89.5 | | 60 - 130 | | |
| Endrin | BZH1274-BS1 | LCS | 0.17158 | 0.15000 | ug/L | 114 | | 60 - 130 | | |
| Heptachlor | BZH1274-BS1 | LCS | 0.10505 | 0.15000 | ug/L | 70.0 | | 60 - 130 | | |
| TCMX (Surrogate) | BZH1274-BS1 | LCS | 0.25035 | 0.30000 | ug/L | 83.4 | | 40 - 140 | | |
| Decachlorobiphenyl (Surrogate) | BZH1274-BS1 | LCS | 0.52894 | 0.60000 | ug/L | 88.2 | | 40 - 120 | | |

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**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0983** | Used client sample: N | | | | | | | | | | |
| Aldrin | MS | 1616196-86 | ND | 0.0047024 | 0.0050676 | mg/kg | | 92.8 | | 50 - 140 | |
| | MSD | 1616196-86 | ND | 0.0040658 | 0.0050336 | mg/kg | 14.5 | 80.8 | 30 | 50 - 140 | |
| gamma-BHC (Lindane) | MS | 1616196-86 | ND | 0.0045311 | 0.0050676 | mg/kg | | 89.4 | | 50 - 140 | |
| | MSD | 1616196-86 | ND | 0.0041346 | 0.0050336 | mg/kg | 9.2 | 82.1 | 30 | 50 - 140 | |
| 4,4'-DDT | MS | 1616196-86 | ND | 0.0037878 | 0.0050676 | mg/kg | | 74.7 | | 50 - 140 | |
| | MSD | 1616196-86 | ND | 0.0040356 | 0.0050336 | mg/kg | 6.3 | 80.2 | 30 | 50 - 140 | |
| Dieldrin | MS | 1616196-86 | ND | 0.0043645 | 0.0050676 | mg/kg | | 86.1 | | 40 - 140 | |
| | MSD | 1616196-86 | ND | 0.0044779 | 0.0050336 | mg/kg | 2.6 | 89.0 | 30 | 40 - 140 | |
| Endrin | MS | 1616196-86 | ND | 0.0046166 | 0.0050676 | mg/kg | | 91.1 | | 50 - 150 | |
| | MSD | 1616196-86 | ND | 0.0045685 | 0.0050336 | mg/kg | 1.0 | 90.8 | 30 | 50 - 150 | |
| Heptachlor | MS | 1616196-86 | ND | 0.0045145 | 0.0050676 | mg/kg | | 89.1 | | 60 - 140 | |
| | MSD | 1616196-86 | ND | 0.0041879 | 0.0050336 | mg/kg | 7.5 | 83.2 | 30 | 60 - 140 | |
| TCMX (Surrogate) | MS | 1616196-86 | ND | 0.0073537 | 0.010135 | mg/kg | | 72.6 | | 20 - 130 | |
| | MSD | 1616196-86 | ND | 0.0077577 | 0.010067 | mg/kg | 5.3 | 77.1 | | 20 - 130 | |
| Decachlorobiphenyl (Surrogate) | MS | 1616196-86 | ND | 0.012964 | 0.020270 | mg/kg | | 64.0 | | 40 - 130 | |
| | MSD | 1616196-86 | ND | 0.012983 | 0.020134 | mg/kg | 0.1 | 64.5 | | 40 - 130 | |
| **QC Batch ID: BZH1274** | Used client sample: N | | | | | | | | | | |
| Aldrin | MS | 1616196-69 | ND | 0.11947 | 0.15000 | ug/L | | 79.6 | | 50 - 130 | |
| | MSD | 1616196-69 | ND | 0.12909 | 0.15000 | ug/L | 7.7 | 86.1 | 30 | 50 - 130 | |
| gamma-BHC (Lindane) | MS | 1616196-69 | ND | 0.11375 | 0.15000 | ug/L | | 75.8 | | 60 - 130 | |
| | MSD | 1616196-69 | ND | 0.12802 | 0.15000 | ug/L | 11.8 | 85.3 | 30 | 60 - 130 | |
| 4,4'-DDT | MS | 1616196-69 | ND | 0.13168 | 0.15000 | ug/L | | 87.8 | | 60 - 130 | |
| | MSD | 1616196-69 | ND | 0.11184 | 0.15000 | ug/L | 16.3 | 74.6 | 30 | 60 - 130 | |
| Dieldrin | MS | 1616196-69 | ND | 0.14974 | 0.15000 | ug/L | | 99.8 | | 65 - 130 | |
| | MSD | 1616196-69 | ND | 0.11251 | 0.15000 | ug/L | 28.4 | 75.0 | 30 | 65 - 130 | |
| Endrin | MS | 1616196-69 | ND | 0.15804 | 0.15000 | ug/L | | 105 | | 60 - 130 | |
| | MSD | 1616196-69 | ND | 0.12951 | 0.15000 | ug/L | 19.8 | 86.3 | 30 | 60 - 130 | |
| Heptachlor | MS | 1616196-69 | ND | 0.10190 | 0.15000 | ug/L | | 67.9 | | 50 - 130 | |
| | MSD | 1616196-69 | ND | 0.12502 | 0.15000 | ug/L | 20.4 | 83.3 | 30 | 50 - 130 | |
| TCMX (Surrogate) | MS | 1616196-69 | ND | 0.22106 | 0.30000 | ug/L | | 73.7 | | 40 - 140 | |
| | MSD | 1616196-69 | ND | 0.23583 | 0.30000 | ug/L | 6.5 | 78.6 | | 40 - 140 | |
| Decachlorobiphenyl (Surrogate) | MS | 1616196-69 | ND | 0.40668 | 0.60000 | ug/L | | 67.8 | | 40 - 120 | |
| | MSD | 1616196-69 | ND | 0.45106 | 0.60000 | ug/L | 10.3 | 75.2 | | 40 - 120 | |

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**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1032** | | | | | | |
| Benzene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.083 | |
| Bromobenzene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.13 | |
| Bromochloromethane | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.24 | |
| Bromodichloromethane | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.14 | |
| Bromoform | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.27 | |
| Bromomethane | BZH1032-BLK1 | ND | ug/L | 1.0 | 0.25 | |
| n-Butylbenzene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.11 | |
| sec-Butylbenzene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.15 | |
| tert-Butylbenzene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.13 | |
| Carbon tetrachloride | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.18 | |
| Chlorobenzene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.093 | |
| Chloroethane | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.14 | |
| Chloroform | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.12 | |
| Chloromethane | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.14 | |
| 2-Chlorotoluene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.20 | |
| 4-Chlorotoluene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.15 | |
| Dibromochloromethane | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.13 | |
| 1,2-Dibromo-3-chloropropane | BZH1032-BLK1 | ND | ug/L | 1.0 | 0.44 | |
| 1,2-Dibromoethane | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.16 | |
| Dibromomethane | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.24 | |
| 1,2-Dichlorobenzene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.072 | |
| 1,3-Dichlorobenzene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.15 | |
| 1,4-Dichlorobenzene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.062 | |
| Dichlorodifluoromethane | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.099 | |
| 1,1-Dichloroethane | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.11 | |
| 1,2-Dichloroethane | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.17 | |
| 1,1-Dichloroethene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.18 | |
| cis-1,2-Dichloroethene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.085 | |
| trans-1,2-Dichloroethene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.15 | |
| 1,2-Dichloropropane | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.13 | |
| 1,3-Dichloropropane | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.086 | |
| 2,2-Dichloropropane | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.13 | |
| 1,1-Dichloropropene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.085 | |
| cis-1,3-Dichloropropene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.14 | |

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**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1032** | | | | | | |
| trans-1,3-Dichloropropene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.079 | |
| Ethylbenzene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.098 | |
| Hexachlorobutadiene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.17 | |
| Isopropylbenzene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.14 | |
| p-Isopropyltoluene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.12 | |
| Methylene chloride | BZH1032-BLK1 | ND | ug/L | 1.0 | 0.48 | |
| Methyl t-butyl ether | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.11 | |
| Naphthalene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.36 | |
| n-Propylbenzene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.11 | |
| Styrene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.068 | |
| 1,1,1,2-Tetrachloroethane | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.18 | |
| 1,1,2,2-Tetrachloroethane | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.17 | |
| Tetrachloroethene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.13 | |
| Toluene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.093 | |
| 1,2,3-Trichlorobenzene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.16 | |
| 1,2,4-Trichlorobenzene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.19 | |
| 1,1,1-Trichloroethane | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.11 | |
| 1,1,2-Trichloroethane | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.16 | |
| Trichloroethene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.085 | |
| Trichlorofluoromethane | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.13 | |
| 1,2,3-Trichloropropane | BZH1032-BLK1 | ND | ug/L | 1.0 | 0.24 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.15 | |
| 1,2,4-Trimethylbenzene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.12 | |
| 1,3,5-Trimethylbenzene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.12 | |
| Vinyl chloride | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.12 | |
| Total Xylenes | BZH1032-BLK1 | ND | ug/L | 1.0 | 0.36 | |
| p- & m-Xylenes | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.28 | |
| o-Xylene | BZH1032-BLK1 | ND | ug/L | 0.50 | 0.082 | |
| **1,2-Dichloroethane-d4 (Surrogate)** | **BZH1032-BLK1** | **90.0** | % | **75 - 125 (LCL - UCL)** | | |
| **Toluene-d8 (Surrogate)** | **BZH1032-BLK1** | **99.3** | % | **80 - 120 (LCL - UCL)** | | |
| **4-Bromofluorobenzene (Surrogate)** | **BZH1032-BLK1** | **91.7** | % | **80 - 120 (LCL - UCL)** | | |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1032** | | | | | | | | | | |
| Benzene | BZH1032-BS1 | LCS | 23.640 | 25.000 | ug/L | 94.6 | | 70 - 130 | | |
| Bromodichloromethane | BZH1032-BS1 | LCS | 23.810 | 25.000 | ug/L | 95.2 | | 70 - 130 | | |
| Chlorobenzene | BZH1032-BS1 | LCS | 24.550 | 25.000 | ug/L | 98.2 | | 70 - 130 | | |
| Chloroethane | BZH1032-BS1 | LCS | 22.890 | 25.000 | ug/L | 91.6 | | 70 - 130 | | |
| 1,4-Dichlorobenzene | BZH1032-BS1 | LCS | 24.390 | 25.000 | ug/L | 97.6 | | 70 - 130 | | |
| 1,1-Dichloroethane | BZH1032-BS1 | LCS | 23.360 | 25.000 | ug/L | 93.4 | | 70 - 130 | | |
| 1,1-Dichloroethene | BZH1032-BS1 | LCS | 24.680 | 25.000 | ug/L | 98.7 | | 70 - 130 | | |
| Toluene | BZH1032-BS1 | LCS | 24.610 | 25.000 | ug/L | 98.4 | | 70 - 130 | | |
| Trichloroethene | BZH1032-BS1 | LCS | 23.990 | 25.000 | ug/L | 96.0 | | 70 - 130 | | |
| 1,2-Dichloroethane-d4 (Surrogate) | BZH1032-BS1 | LCS | 9.0800 | 10.000 | ug/L | 90.8 | | 75 - 125 | | |
| Toluene-d8 (Surrogate) | BZH1032-BS1 | LCS | 9.9600 | 10.000 | ug/L | 99.6 | | 80 - 120 | | |
| 4-Bromofluorobenzene (Surrogate) | BZH1032-BS1 | LCS | 9.9000 | 10.000 | ug/L | 99.0 | | 80 - 120 | | |

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# Volatile Organic Analysis (EPA Method 8260B)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1032** | Used client sample: N | | | | | | | | | | |
| Benzene | MS | 1621392-13 | ND | 24.340 | 25.000 | ug/L | | 97.4 | | 70 - 130 | |
| | MSD | 1621392-13 | ND | 26.020 | 25.000 | ug/L | 6.7 | 104 | 20 | 70 - 130 | |
| Bromodichloromethane | MS | 1621392-13 | ND | 24.820 | 25.000 | ug/L | | 99.3 | | 70 - 130 | |
| | MSD | 1621392-13 | ND | 26.020 | 25.000 | ug/L | 4.7 | 104 | 20 | 70 - 130 | |
| Chlorobenzene | MS | 1621392-13 | ND | 25.500 | 25.000 | ug/L | | 102 | | 70 - 130 | |
| | MSD | 1621392-13 | ND | 26.060 | 25.000 | ug/L | 2.2 | 104 | 20 | 70 - 130 | |
| Chloroethane | MS | 1621392-13 | ND | 22.960 | 25.000 | ug/L | | 91.8 | | 70 - 130 | |
| | MSD | 1621392-13 | ND | 24.670 | 25.000 | ug/L | 7.2 | 98.7 | 20 | 70 - 130 | |
| 1,4-Dichlorobenzene | MS | 1621392-13 | ND | 25.570 | 25.000 | ug/L | | 102 | | 70 - 130 | |
| | MSD | 1621392-13 | ND | 26.000 | 25.000 | ug/L | 1.7 | 104 | 20 | 70 - 130 | |
| 1,1-Dichloroethane | MS | 1621392-13 | ND | 24.480 | 25.000 | ug/L | | 97.9 | | 70 - 130 | |
| | MSD | 1621392-13 | ND | 25.820 | 25.000 | ug/L | 5.3 | 103 | 20 | 70 - 130 | |
| 1,1-Dichloroethene | MS | 1621392-13 | ND | 25.430 | 25.000 | ug/L | | 102 | | 70 - 130 | |
| | MSD | 1621392-13 | ND | 26.930 | 25.000 | ug/L | 5.7 | 108 | 20 | 70 - 130 | |
| Toluene | MS | 1621392-13 | ND | 24.810 | 25.000 | ug/L | | 99.2 | | 70 - 130 | |
| | MSD | 1621392-13 | ND | 26.330 | 25.000 | ug/L | 5.9 | 105 | 20 | 70 - 130 | |
| Trichloroethene | MS | 1621392-13 | ND | 25.350 | 25.000 | ug/L | | 101 | | 70 - 130 | |
| | MSD | 1621392-13 | ND | 26.490 | 25.000 | ug/L | 4.4 | 106 | 20 | 70 - 130 | |
| 1,2-Dichloroethane-d4 (Surrogate) | MS | 1621392-13 | ND | 8.9800 | 10.000 | ug/L | | 89.8 | | 75 - 125 | |
| | MSD | 1621392-13 | ND | 9.1600 | 10.000 | ug/L | 2.0 | 91.6 | | 75 - 125 | |
| Toluene-d8 (Surrogate) | MS | 1621392-13 | ND | 10.010 | 10.000 | ug/L | | 100 | | 80 - 120 | |
| | MSD | 1621392-13 | ND | 9.9800 | 10.000 | ug/L | 0.3 | 99.8 | | 80 - 120 | |
| 4-Bromofluorobenzene (Surrogate) | MS | 1621392-13 | ND | 9.9600 | 10.000 | ug/L | | 99.6 | | 80 - 120 | |
| | MSD | 1621392-13 | ND | 9.9100 | 10.000 | ug/L | 0.5 | 99.1 | | 80 - 120 | |

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# Volatile Organic Analysis (EPA Method 8260B/5035)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0683** | | | | | | |
| Benzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Bromobenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Bromochloromethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.00092 | |
| Bromodichloromethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.00084 | |
| Bromoform | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| Bromomethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0016 | |
| n-Butylbenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| sec-Butylbenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| tert-Butylbenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| Carbon tetrachloride | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| Chlorobenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Chloroethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| Chloroform | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.00063 | |
| Chloromethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 2-Chlorotoluene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0018 | |
| 4-Chlorotoluene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| Dibromochloromethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.00099 | |
| 1,2-Dibromo-3-chloropropane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0017 | |
| 1,2-Dibromoethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0010 | |
| Dibromomethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0018 | |
| 1,2-Dichlorobenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.00081 | |
| 1,3-Dichlorobenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 1,4-Dichlorobenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| Dichlorodifluoromethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| 1,1-Dichloroethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 1,2-Dichloroethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.00085 | |
| 1,1-Dichloroethene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| cis-1,2-Dichloroethene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| trans-1,2-Dichloroethene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 1,2-Dichloropropane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.00081 | |
| 1,3-Dichloropropane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| 2,2-Dichloropropane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| 1,1-Dichloropropene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| cis-1,3-Dichloropropene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |

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# Volatile Organic Analysis (EPA Method 8260B/5035)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0683** | | | | | | |
| trans-1,3-Dichloropropene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| Ethylbenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| Hexachlorobutadiene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0017 | |
| Isopropylbenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| p-Isopropyltoluene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Methylene chloride | BZH0683-BLK1 | ND | mg/kg | 0.010 | 0.0024 | |
| Methyl t-butyl ether | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.00050 | |
| Naphthalene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| n-Propylbenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Styrene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 1,1,1,2-Tetrachloroethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| 1,1,2,2-Tetrachloroethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| Tetrachloroethene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Toluene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| 1,2,3-Trichlorobenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0021 | |
| 1,2,4-Trichlorobenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0020 | |
| 1,1,1-Trichloroethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| 1,1,2-Trichloroethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.00077 | |
| Trichloroethene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| Trichlorofluoromethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| 1,2,3-Trichloropropane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0016 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| 1,2,4-Trimethylbenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| 1,3,5-Trimethylbenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| Vinyl chloride | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0016 | |
| Total Xylenes | BZH0683-BLK1 | ND | mg/kg | 0.010 | 0.0034 | |
| p- & m-Xylenes | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0022 | |
| o-Xylene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| **1,2-Dichloroethane-d4 (Surrogate)** | **BZH0683-BLK1** | **106** | % | **70 - 121 (LCL - UCL)** | | |
| **Toluene-d8 (Surrogate)** | **BZH0683-BLK1** | **99.7** | % | **81 - 117 (LCL - UCL)** | | |
| **4-Bromofluorobenzene (Surrogate)** | **BZH0683-BLK1** | **93.2** | % | **74 - 121 (LCL - UCL)** | | |

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# Volatile Organic Analysis (EPA Method 8260B/5035)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0683** | | | | | | | | | | |
| Benzene | BZH0683-BS1 | LCS | 0.11354 | 0.12500 | mg/kg | 90.8 | | 70 - 130 | | |
| Bromodichloromethane | BZH0683-BS1 | LCS | 0.11447 | 0.12500 | mg/kg | 91.6 | | 70 - 130 | | |
| Chlorobenzene | BZH0683-BS1 | LCS | 0.12155 | 0.12500 | mg/kg | 97.2 | | 70 - 130 | | |
| Chloroethane | BZH0683-BS1 | LCS | 0.10075 | 0.12500 | mg/kg | 80.6 | | 70 - 130 | | |
| 1,4-Dichlorobenzene | BZH0683-BS1 | LCS | 0.12895 | 0.12500 | mg/kg | 103 | | 70 - 130 | | |
| 1,1-Dichloroethane | BZH0683-BS1 | LCS | 0.11517 | 0.12500 | mg/kg | 92.1 | | 70 - 130 | | |
| 1,1-Dichloroethene | BZH0683-BS1 | LCS | 0.10748 | 0.12500 | mg/kg | 86.0 | | 70 - 130 | | |
| Toluene | BZH0683-BS1 | LCS | 0.11611 | 0.12500 | mg/kg | 92.9 | | 70 - 130 | | |
| Trichloroethene | BZH0683-BS1 | LCS | 0.11696 | 0.12500 | mg/kg | 93.6 | | 70 - 130 | | |
| 1,2-Dichloroethane-d4 (Surrogate) | BZH0683-BS1 | LCS | 0.046750 | 0.050000 | mg/kg | 93.5 | | 70 - 121 | | |
| Toluene-d8 (Surrogate) | BZH0683-BS1 | LCS | 0.047020 | 0.050000 | mg/kg | 94.0 | | 81 - 117 | | |
| 4-Bromofluorobenzene (Surrogate) | BZH0683-BS1 | LCS | 0.049020 | 0.050000 | mg/kg | 98.0 | | 74 - 121 | | |

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# Volatile Organic Analysis (EPA Method 8260B/5035)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0683** | Used client sample: N | | | | | | | | | | |
| Benzene | MS | 1616196-97 | ND | 0.12494 | 0.12500 | mg/kg | | 100 | | 70 - 130 | |
| | MSD | 1616196-97 | ND | 0.13073 | 0.12500 | mg/kg | 4.5 | 105 | 20 | 70 - 130 | |
| Bromodichloromethane | MS | 1616196-97 | ND | 0.12328 | 0.12500 | mg/kg | | 98.6 | | 70 - 130 | |
| | MSD | 1616196-97 | ND | 0.12695 | 0.12500 | mg/kg | 2.9 | 102 | 20 | 70 - 130 | |
| Chlorobenzene | MS | 1616196-97 | ND | 0.12421 | 0.12500 | mg/kg | | 99.4 | | 70 - 130 | |
| | MSD | 1616196-97 | ND | 0.11713 | 0.12500 | mg/kg | 5.9 | 93.7 | 20 | 70 - 130 | |
| Chloroethane | MS | 1616196-97 | ND | 0.11921 | 0.12500 | mg/kg | | 95.4 | | 70 - 130 | |
| | MSD | 1616196-97 | ND | 0.10552 | 0.12500 | mg/kg | 12.2 | 84.4 | 20 | 70 - 130 | |
| 1,4-Dichlorobenzene | MS | 1616196-97 | ND | 0.12279 | 0.12500 | mg/kg | | 98.2 | | 70 - 130 | |
| | MSD | 1616196-97 | ND | 0.12234 | 0.12500 | mg/kg | 0.4 | 97.9 | 20 | 70 - 130 | |
| 1,1-Dichloroethane | MS | 1616196-97 | ND | 0.12834 | 0.12500 | mg/kg | | 103 | | 70 - 130 | |
| | MSD | 1616196-97 | ND | 0.13022 | 0.12500 | mg/kg | 1.5 | 104 | 20 | 70 - 130 | |
| 1,1-Dichloroethene | MS | 1616196-97 | ND | 0.12366 | 0.12500 | mg/kg | | 98.9 | | 70 - 130 | |
| | MSD | 1616196-97 | ND | 0.12127 | 0.12500 | mg/kg | 2.0 | 97.0 | 20 | 70 - 130 | |
| Toluene | MS | 1616196-97 | ND | 0.12465 | 0.12500 | mg/kg | | 99.7 | | 70 - 130 | |
| | MSD | 1616196-97 | ND | 0.12421 | 0.12500 | mg/kg | 0.4 | 99.4 | 20 | 70 - 130 | |
| Trichloroethene | MS | 1616196-97 | ND | 0.12137 | 0.12500 | mg/kg | | 97.1 | | 70 - 130 | |
| | MSD | 1616196-97 | ND | 0.12237 | 0.12500 | mg/kg | 0.8 | 97.9 | 20 | 70 - 130 | |
| 1,2-Dichloroethane-d4 (Surrogate) | MS | 1616196-97 | ND | 0.053980 | 0.050000 | mg/kg | | 108 | | 70 - 121 | |
| | MSD | 1616196-97 | ND | 0.055330 | 0.050000 | mg/kg | 2.5 | 111 | | 70 - 121 | |
| Toluene-d8 (Surrogate) | MS | 1616196-97 | ND | 0.051020 | 0.050000 | mg/kg | | 102 | | 81 - 117 | |
| | MSD | 1616196-97 | ND | 0.048980 | 0.050000 | mg/kg | 4.1 | 98.0 | | 81 - 117 | |
| 4-Bromofluorobenzene (Surrogate) | MS | 1616196-97 | ND | 0.050760 | 0.050000 | mg/kg | | 102 | | 74 - 121 | |
| | MSD | 1616196-97 | ND | 0.050070 | 0.050000 | mg/kg | 1.4 | 100 | | 74 - 121 | |

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# Total Petroleum Hydrocarbons

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1074** | | | | | | |
| TPH - Gasoline | BZH1074-BLK1 | ND | mg/kg | 20 | 5.0 | |
| TPH - Diesel (FFP) | BZH1074-BLK1 | ND | mg/kg | 10 | 1.2 | |
| TPH - Motor Oil | BZH1074-BLK1 | ND | mg/kg | 20 | 6.5 | |
| **Tetracosane (Surrogate)** | **BZH1074-BLK1** | **82.6** | % | **20 - 145 (LCL - UCL)** | | |
| **QC Batch ID: BZH1208** | | | | | | |
| TPH - Gasoline | BZH1208-BLK1 | ND | ug/L | 500 | 200 | |
| TPH - Diesel (FFP) | BZH1208-BLK1 | ND | ug/L | 200 | 34 | |
| TPH - Motor Oil | BZH1208-BLK1 | ND | ug/L | 500 | 66 | |
| **Tetracosane (Surrogate)** | **BZH1208-BLK1** | **71.5** | % | **37 - 134 (LCL - UCL)** | | |

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# Total Petroleum Hydrocarbons

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1074** | | | | | | | | | | |
| TPH - Diesel (FFP) | BZH1074-BS1 | LCS | 62.478 | 81.967 | mg/kg | 76.2 | | 64 - 124 | | |
| Tetracosane (Surrogate) | BZH1074-BS1 | LCS | 2.9351 | 3.2787 | mg/kg | 89.5 | | 20 - 145 | | |
| **QC Batch ID: BZH1208** | | | | | | | | | | |
| TPH - Diesel (FFP) | BZH1208-BS1 | LCS | 1785.1 | 2500.0 | ug/L | 71.4 | | 52 - 128 | | |
| Tetracosane (Surrogate) | BZH1208-BS1 | LCS | 73.755 | 100.00 | ug/L | 73.8 | | 37 - 134 | | |

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# Total Petroleum Hydrocarbons

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1074** | Used client sample: N | | | | | | | | | | |
| TPH - Diesel (FFP) | MS | 1621654-23 | ND | 73.027 | 83.612 | mg/kg | | 87.3 | | 52 - 131 | |
| | MSD | 1621654-23 | ND | 67.910 | 84.746 | mg/kg | 7.3 | 80.1 | 30 | 52 - 131 | |
| Tetracosane (Surrogate) | MS | 1621654-23 | ND | 2.7349 | 3.3445 | mg/kg | | 81.8 | | 20 - 145 | |
| | MSD | 1621654-23 | ND | 3.1502 | 3.3898 | mg/kg | 14.1 | 92.9 | | 20 - 145 | |
| **QC Batch ID: BZH1208** | Used client sample: N | | | | | | | | | | |
| TPH - Diesel (FFP) | MS | 1621392-31 | ND | 1922.1 | 2500.0 | ug/L | | 76.9 | | 50 - 127 | |
| | MSD | 1621392-31 | ND | 1912.6 | 2500.0 | ug/L | 0.5 | 76.5 | 24 | 50 - 127 | |
| Tetracosane (Surrogate) | MS | 1621392-31 | ND | 78.525 | 100.00 | ug/L | | 78.5 | | 37 - 134 | |
| | MSD | 1621392-31 | ND | 79.695 | 100.00 | ug/L | 1.5 | 79.7 | | 37 - 134 | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# WET Test (STLC)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZI0197** | | | | | | |
| Chromium | BZI0197-BLK1 | ND | mg/L | 0.10 | 0.0092 | |

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Long Beach, CA 90815

**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# WET Test (STLC)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZI0197** | | | | | | | | | | |
| Chromium | BZI0197-BS1 | LCS | 20.360 | 20.000 | mg/L | 102 | | 85 - 115 | | |

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**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# WET Test (STLC)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZI0197** | Used client sample: Y - Description: WS-drum-comp, 08/03/2016 14:58 | | | | | | | | | | |
| Chromium | DUP | 1621610-01 | 0.11120 | 0.11626 | | mg/L | 4.5 | | 20 | | |
| | MS | 1621610-01 | 0.11120 | 18.744 | 20.408 | mg/L | | 91.3 | | 75 - 125 | |
| | MSD | 1621610-01 | 0.11120 | 19.829 | 20.408 | mg/L | 5.6 | 96.6 | 20 | 75 - 125 | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
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**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0716** | | | | | | |
| Antimony | BZH0716-BLK1 | ND | mg/kg | 5.0 | 0.33 | |
| Arsenic | BZH0716-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| Barium | BZH0716-BLK1 | ND | mg/kg | 0.50 | 0.18 | |
| Beryllium | BZH0716-BLK1 | ND | mg/kg | 0.50 | 0.047 | |
| Cadmium | BZH0716-BLK1 | ND | mg/kg | 0.50 | 0.052 | |
| **Chromium** | **BZH0716-BLK1** | **0.054955** | **mg/kg** | **0.50** | **0.050** | **J** |
| Cobalt | BZH0716-BLK1 | ND | mg/kg | 2.5 | 0.098 | |
| Copper | BZH0716-BLK1 | ND | mg/kg | 1.0 | 0.050 | |
| Lead | BZH0716-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| Molybdenum | BZH0716-BLK1 | ND | mg/kg | 2.5 | 0.050 | |
| Nickel | BZH0716-BLK1 | ND | mg/kg | 0.50 | 0.15 | |
| Selenium | BZH0716-BLK1 | ND | mg/kg | 1.0 | 0.98 | |
| Silver | BZH0716-BLK1 | ND | mg/kg | 0.50 | 0.067 | |
| Thallium | BZH0716-BLK1 | ND | mg/kg | 5.0 | 0.64 | |
| Vanadium | BZH0716-BLK1 | ND | mg/kg | 0.50 | 0.11 | |
| **Zinc** | **BZH0716-BLK1** | **0.17494** | **mg/kg** | **2.5** | **0.087** | **J** |
| **QC Batch ID: BZH0745** | | | | | | |
| Mercury | BZH0745-BLK1 | ND | mg/kg | 0.16 | 0.041 | |

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**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0716** | | | | | | | | | | |
| Antimony | BZH0716-BS1 | LCS | 102.41 | 100.00 | mg/kg | 102 | | 75 - 125 | | |
| Arsenic | BZH0716-BS1 | LCS | 9.6440 | 10.000 | mg/kg | 96.4 | | 75 - 125 | | |
| Barium | BZH0716-BS1 | LCS | 102.69 | 100.00 | mg/kg | 103 | | 75 - 125 | | |
| Beryllium | BZH0716-BS1 | LCS | 9.9797 | 10.000 | mg/kg | 99.8 | | 75 - 125 | | |
| Cadmium | BZH0716-BS1 | LCS | 10.221 | 10.000 | mg/kg | 102 | | 75 - 125 | | |
| Chromium | BZH0716-BS1 | LCS | 107.92 | 100.00 | mg/kg | 108 | | 75 - 125 | | |
| Cobalt | BZH0716-BS1 | LCS | 102.30 | 100.00 | mg/kg | 102 | | 75 - 125 | | |
| Copper | BZH0716-BS1 | LCS | 99.448 | 100.00 | mg/kg | 99.4 | | 75 - 125 | | |
| Lead | BZH0716-BS1 | LCS | 101.66 | 100.00 | mg/kg | 102 | | 75 - 125 | | |
| Molybdenum | BZH0716-BS1 | LCS | 104.66 | 100.00 | mg/kg | 105 | | 75 - 125 | | |
| Nickel | BZH0716-BS1 | LCS | 108.24 | 100.00 | mg/kg | 108 | | 75 - 125 | | |
| Selenium | BZH0716-BS1 | LCS | 9.8527 | 10.000 | mg/kg | 98.5 | | 75 - 125 | | |
| Silver | BZH0716-BS1 | LCS | 9.8934 | 10.000 | mg/kg | 98.9 | | 75 - 125 | | |
| Thallium | BZH0716-BS1 | LCS | 112.09 | 100.00 | mg/kg | 112 | | 75 - 125 | | |
| Vanadium | BZH0716-BS1 | LCS | 107.48 | 100.00 | mg/kg | 107 | | 75 - 125 | | |
| Zinc | BZH0716-BS1 | LCS | 101.34 | 100.00 | mg/kg | 101 | | 75 - 125 | | |
| **QC Batch ID: BZH0745** | | | | | | | | | | |
| Mercury | BZH0745-BS1 | LCS | 0.80400 | 0.80000 | mg/kg | 100 | | 80 - 120 | | |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0716** | Used client sample: Y - Description: WS-drum-comp, 08/03/2016 14:58 | | | | | | | | | | |
| Antimony | DUP | 1621610-01 | ND | ND | | mg/kg | | | 20 | | |
| | MS | 1621610-01 | ND | 40.808 | 100.00 | mg/kg | | 40.8 | | 16 - 119 | |
| | MSD | 1621610-01 | ND | 40.983 | 100.00 | mg/kg | 0.4 | 41.0 | 20 | 16 - 119 | |
| **Arsenic** | DUP | **1621610-01** | **13.893** | **11.002** | | **mg/kg** | **23.2** | | **20** | | **Q01** |
| | MS | **1621610-01** | **13.893** | **22.199** | **10.000** | **mg/kg** | | **83.1** | | **75 - 125** | |
| | MSD | **1621610-01** | **13.893** | **22.500** | **10.000** | **mg/kg** | **1.3** | **86.1** | **20** | **75 - 125** | |
| Barium | DUP | 1621610-01 | 323.76 | 345.25 | | mg/kg | 6.4 | | 20 | | |
| | MS | 1621610-01 | 323.76 | 413.26 | 100.00 | mg/kg | | 89.5 | | 75 - 125 | |
| | MSD | 1621610-01 | 323.76 | 412.89 | 100.00 | mg/kg | 0.1 | 89.1 | 20 | 75 - 125 | |
| Beryllium | DUP | 1621610-01 | 0.33924 | 0.35493 | | mg/kg | 4.5 | | 20 | | J |
| | MS | 1621610-01 | 0.33924 | 9.1659 | 10.000 | mg/kg | | 88.3 | | 75 - 125 | |
| | MSD | 1621610-01 | 0.33924 | 8.9182 | 10.000 | mg/kg | 2.7 | 85.8 | 20 | 75 - 125 | |
| Cadmium | DUP | 1621610-01 | 2.5434 | 2.7792 | | mg/kg | 8.9 | | 20 | | |
| | MS | 1621610-01 | 2.5434 | 12.297 | 10.000 | mg/kg | | 97.5 | | 75 - 125 | |
| | MSD | 1621610-01 | 2.5434 | 11.987 | 10.000 | mg/kg | 2.5 | 94.4 | 20 | 75 - 125 | |
| Chromium | DUP | 1621610-01 | 64.057 | 64.077 | | mg/kg | 0.0 | | 20 | | |
| | MS | 1621610-01 | 64.057 | 159.35 | 100.00 | mg/kg | | 95.3 | | 75 - 125 | |
| | MSD | 1621610-01 | 64.057 | 153.17 | 100.00 | mg/kg | 4.0 | 89.1 | 20 | 75 - 125 | |
| Cobalt | DUP | 1621610-01 | 4.5393 | 4.4698 | | mg/kg | 1.5 | | 20 | | |
| | MS | 1621610-01 | 4.5393 | 88.205 | 100.00 | mg/kg | | 83.7 | | 75 - 125 | |
| | MSD | 1621610-01 | 4.5393 | 83.761 | 100.00 | mg/kg | 5.2 | 79.2 | 20 | 75 - 125 | |
| Copper | DUP | 1621610-01 | 39.743 | 38.292 | | mg/kg | 3.7 | | 20 | | |
| | MS | 1621610-01 | 39.743 | 153.45 | 100.00 | mg/kg | | 114 | | 75 - 125 | |
| | MSD | 1621610-01 | 39.743 | 147.00 | 100.00 | mg/kg | 4.3 | 107 | 20 | 75 - 125 | |
| **Lead** | DUP | **1621610-01** | **19.973** | **23.547** | | **mg/kg** | **16.4** | | **20** | | |
| | MS | **1621610-01** | **19.973** | **128.15** | **100.00** | **mg/kg** | | **108** | | **75 - 125** | |
| | MSD | **1621610-01** | **19.973** | **104.56** | **100.00** | **mg/kg** | **20.3** | **84.6** | **20** | **75 - 125** | **Q02** |
| Molybdenum | DUP | 1621610-01 | 4.1573 | 3.8808 | | mg/kg | 6.9 | | 20 | | |
| | MS | 1621610-01 | 4.1573 | 91.530 | 100.00 | mg/kg | | 87.4 | | 75 - 125 | |
| | MSD | 1621610-01 | 4.1573 | 87.510 | 100.00 | mg/kg | 4.5 | 83.4 | 20 | 75 - 125 | |
| Nickel | DUP | 1621610-01 | 51.143 | 50.514 | | mg/kg | 1.2 | | 20 | | |
| | MS | 1621610-01 | 51.143 | 144.65 | 100.00 | mg/kg | | 93.5 | | 75 - 125 | |
| | MSD | 1621610-01 | 51.143 | 134.16 | 100.00 | mg/kg | 7.5 | 83.0 | 20 | 75 - 125 | |
| Selenium | DUP | 1621610-01 | ND | 1.1273 | | mg/kg | | | 20 | | |
| | MS | 1621610-01 | ND | 9.6169 | 10.000 | mg/kg | | 96.2 | | 75 - 125 | |
| | MSD | 1621610-01 | ND | 9.2405 | 10.000 | mg/kg | 4.0 | 92.4 | 20 | 75 - 125 | |
| Silver | DUP | 1621610-01 | 0.47255 | 0.51662 | | mg/kg | 8.9 | | 20 | | |
| | MS | 1621610-01 | 0.47255 | 10.986 | 10.000 | mg/kg | | 105 | | 75 - 125 | |
| | MSD | 1621610-01 | 0.47255 | 10.514 | 10.000 | mg/kg | 4.4 | 100 | 20 | 75 - 125 | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0716** | Used client sample: Y - Description: WS-drum-comp, 08/03/2016 14:58 | | | | | | | | | | |
| Thallium | DUP | 1621610-01 | ND | ND | | mg/kg | | | 20 | | |
| | MS | 1621610-01 | ND | 85.275 | 100.00 | mg/kg | | 85.3 | | 75 - 125 | |
| | MSD | 1621610-01 | ND | 83.271 | 100.00 | mg/kg | 2.4 | 83.3 | 20 | 75 - 125 | |
| Vanadium | DUP | 1621610-01 | 126.45 | 120.52 | | mg/kg | 4.8 | | 20 | | |
| | MS | 1621610-01 | 126.45 | 217.72 | 100.00 | mg/kg | | 91.3 | | 75 - 125 | |
| | MSD | 1621610-01 | 126.45 | 213.13 | 100.00 | mg/kg | 2.1 | 86.7 | 20 | 75 - 125 | |
| **Zinc** | DUP | **1621610-01** | **80.210** | **84.507** | | **mg/kg** | **5.2** | | **20** | | |
| | MS | **1621610-01** | **80.210** | **235.91** | **100.00** | **mg/kg** | | **156** | | **75 - 125** | **Q03** |
| | MSD | **1621610-01** | **80.210** | **157.12** | **100.00** | **mg/kg** | **40.1** | **76.9** | **20** | **75 - 125** | **Q02** |
| **QC Batch ID: BZH0745** | Used client sample: N | | | | | | | | | | |
| Mercury | DUP | 1620666-01 | ND | ND | | mg/kg | | | 20 | | |
| | MS | 1620666-01 | ND | 0.81381 | 0.79365 | mg/kg | | 103 | | 80 - 120 | |
| | MSD | 1620666-01 | ND | 0.81365 | 0.79365 | mg/kg | 0.0 | 103 | 20 | 80 - 120 | |

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**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Metals Analysis

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0978** | | | | | | |
| Total Antimony | BZH0978-BLK1 | ND | ug/L | 100 | 8.5 | |
| Total Arsenic | BZH0978-BLK1 | ND | ug/L | 50 | 7.8 | |
| Total Barium | BZH0978-BLK1 | ND | ug/L | 10 | 3.5 | |
| Total Beryllium | BZH0978-BLK1 | ND | ug/L | 10 | 0.50 | |
| Total Cadmium | BZH0978-BLK1 | ND | ug/L | 10 | 1.1 | |
| Total Chromium | BZH0978-BLK1 | ND | ug/L | 10 | 1.1 | |
| Total Cobalt | BZH0978-BLK1 | ND | ug/L | 50 | 1.3 | |
| Total Copper | BZH0978-BLK1 | ND | ug/L | 10 | 1.1 | |
| Total Lead | BZH0978-BLK1 | ND | ug/L | 50 | 4.0 | |
| Total Molybdenum | BZH0978-BLK1 | ND | ug/L | 50 | 1.2 | |
| Total Nickel | BZH0978-BLK1 | ND | ug/L | 10 | 2.0 | |
| Total Selenium | BZH0978-BLK1 | ND | ug/L | 100 | 15 | |
| Total Silver | BZH0978-BLK1 | ND | ug/L | 10 | 1.9 | |
| Total Thallium | BZH0978-BLK1 | ND | ug/L | 100 | 24 | |
| Total Vanadium | BZH0978-BLK1 | ND | ug/L | 10 | 2.2 | |
| Total Zinc | BZH0978-BLK1 | ND | ug/L | 50 | 2.3 | |
| **QC Batch ID: BZH1123** | | | | | | |
| Total Mercury | BZH1123-BLK1 | ND | ug/L | 0.20 | 0.030 | |

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**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Metals Analysis

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0978** | | | | | | | | | | |
| Total Antimony | BZH0978-BS1 | LCS | 399.41 | 400.00 | ug/L | 99.9 | | 85 - 115 | | |
| Total Arsenic | BZH0978-BS1 | LCS | 196.41 | 200.00 | ug/L | 98.2 | | 85 - 115 | | |
| Total Barium | BZH0978-BS1 | LCS | 399.80 | 400.00 | ug/L | 100 | | 85 - 115 | | |
| Total Beryllium | BZH0978-BS1 | LCS | 187.03 | 200.00 | ug/L | 93.5 | | 85 - 115 | | |
| Total Cadmium | BZH0978-BS1 | LCS | 190.43 | 200.00 | ug/L | 95.2 | | 85 - 115 | | |
| Total Chromium | BZH0978-BS1 | LCS | 199.32 | 200.00 | ug/L | 99.7 | | 85 - 115 | | |
| Total Cobalt | BZH0978-BS1 | LCS | 196.91 | 200.00 | ug/L | 98.5 | | 85 - 115 | | |
| Total Copper | BZH0978-BS1 | LCS | 364.73 | 400.00 | ug/L | 91.2 | | 85 - 115 | | |
| Total Lead | BZH0978-BS1 | LCS | 396.30 | 400.00 | ug/L | 99.1 | | 85 - 115 | | |
| Total Molybdenum | BZH0978-BS1 | LCS | 201.79 | 200.00 | ug/L | 101 | | 85 - 115 | | |
| Total Nickel | BZH0978-BS1 | LCS | 399.13 | 400.00 | ug/L | 99.8 | | 85 - 115 | | |
| Total Selenium | BZH0978-BS1 | LCS | 201.72 | 200.00 | ug/L | 101 | | 85 - 115 | | |
| Total Silver | BZH0978-BS1 | LCS | 91.718 | 100.00 | ug/L | 91.7 | | 85 - 115 | | |
| Total Thallium | BZH0978-BS1 | LCS | 419.35 | 400.00 | ug/L | 105 | | 85 - 115 | | |
| Total Vanadium | BZH0978-BS1 | LCS | 200.26 | 200.00 | ug/L | 100 | | 85 - 115 | | |
| Total Zinc | BZH0978-BS1 | LCS | 465.09 | 500.00 | ug/L | 93.0 | | 85 - 115 | | |
| **QC Batch ID: BZH1123** | | | | | | | | | | |
| Total Mercury | BZH1123-BS1 | LCS | 1.0100 | 1.0000 | ug/L | 101 | | 85 - 115 | | |

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**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Metals Analysis

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0978** | Used client sample: N | | | | | | | | | | |
| Total Antimony | DUP | 1621550-01 | ND | ND | | ug/L | | | 20 | | |
| | MS | 1621550-01 | ND | 441.58 | 400.00 | ug/L | | 110 | | 75 - 125 | |
| | MSD | 1621550-01 | ND | 414.53 | 400.00 | ug/L | 6.3 | 104 | 20 | 75 - 125 | |
| Total Arsenic | DUP | 1621550-01 | ND | ND | | ug/L | | | 20 | | |
| | MS | 1621550-01 | ND | 218.49 | 200.00 | ug/L | | 109 | | 75 - 125 | |
| | MSD | 1621550-01 | ND | 206.85 | 200.00 | ug/L | 5.5 | 103 | 20 | 75 - 125 | |
| Total Barium | DUP | 1621550-01 | 162.79 | 151.53 | | ug/L | 7.2 | | 20 | | |
| | MS | 1621550-01 | 162.79 | 586.72 | 400.00 | ug/L | | 106 | | 75 - 125 | |
| | MSD | 1621550-01 | 162.79 | 549.03 | 400.00 | ug/L | 6.6 | 96.6 | 20 | 75 - 125 | |
| Total Beryllium | DUP | 1621550-01 | ND | ND | | ug/L | | | 20 | | |
| | MS | 1621550-01 | ND | 201.39 | 200.00 | ug/L | | 101 | | 75 - 125 | |
| | MSD | 1621550-01 | ND | 191.42 | 200.00 | ug/L | 5.1 | 95.7 | 20 | 75 - 125 | |
| Total Cadmium | DUP | 1621550-01 | ND | ND | | ug/L | | | 20 | | |
| | MS | 1621550-01 | ND | 206.39 | 200.00 | ug/L | | 103 | | 75 - 125 | |
| | MSD | 1621550-01 | ND | 195.18 | 200.00 | ug/L | 5.6 | 97.6 | 20 | 75 - 125 | |
| Total Chromium | DUP | 1621550-01 | ND | 15.338 | | ug/L | | | 20 | | |
| | MS | 1621550-01 | ND | 208.26 | 200.00 | ug/L | | 104 | | 75 - 125 | |
| | MSD | 1621550-01 | ND | 197.59 | 200.00 | ug/L | 5.3 | 98.8 | 20 | 75 - 125 | |
| Total Cobalt | DUP | 1621550-01 | ND | ND | | ug/L | | | 20 | | |
| | MS | 1621550-01 | ND | 203.61 | 200.00 | ug/L | | 102 | | 75 - 125 | |
| | MSD | 1621550-01 | ND | 192.00 | 200.00 | ug/L | 5.9 | 96.0 | 20 | 75 - 125 | |
| Total Copper | DUP | 1621550-01 | 6.5042 | 6.9717 | | ug/L | 6.9 | | 20 | | J |
| | MS | 1621550-01 | 6.5042 | 395.55 | 400.00 | ug/L | | 97.3 | | 75 - 125 | |
| | MSD | 1621550-01 | 6.5042 | 381.15 | 400.00 | ug/L | 3.7 | 93.7 | 20 | 75 - 125 | |
| Total Lead | DUP | 1621550-01 | ND | ND | | ug/L | | | 20 | | |
| | MS | 1621550-01 | ND | 414.07 | 400.00 | ug/L | | 104 | | 75 - 125 | |
| | MSD | 1621550-01 | ND | 389.41 | 400.00 | ug/L | 6.1 | 97.4 | 20 | 75 - 125 | |
| Total Molybdenum | DUP | 1621550-01 | 5.5475 | 5.1426 | | ug/L | 7.6 | | 20 | | J |
| | MS | 1621550-01 | 5.5475 | 220.57 | 200.00 | ug/L | | 108 | | 75 - 125 | |
| | MSD | 1621550-01 | 5.5475 | 208.78 | 200.00 | ug/L | 5.5 | 102 | 20 | 75 - 125 | |
| Total Nickel | DUP | 1621550-01 | ND | ND | | ug/L | | | 20 | | |
| | MS | 1621550-01 | ND | 399.67 | 400.00 | ug/L | | 99.9 | | 75 - 125 | |
| | MSD | 1621550-01 | ND | 386.50 | 400.00 | ug/L | 3.4 | 96.6 | 20 | 75 - 125 | |
| Total Selenium | DUP | 1621550-01 | ND | ND | | ug/L | | | 20 | | |
| | MS | 1621550-01 | ND | 218.67 | 200.00 | ug/L | | 109 | | 75 - 125 | |
| | MSD | 1621550-01 | ND | 203.52 | 200.00 | ug/L | 7.2 | 102 | 20 | 75 - 125 | |
| Total Silver | DUP | 1621550-01 | ND | ND | | ug/L | | | 20 | | |
| | MS | 1621550-01 | ND | 99.375 | 100.00 | ug/L | | 99.4 | | 75 - 125 | |
| | MSD | 1621550-01 | ND | 94.624 | 100.00 | ug/L | 4.9 | 94.6 | 20 | 75 - 125 | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Metals Analysis

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0978** | Used client sample: N | | | | | | | | | | |
| Total Thallium | DUP | 1621550-01 | ND | ND | | ug/L | | | 20 | | |
| | MS | 1621550-01 | ND | 421.07 | 400.00 | ug/L | | 105 | | 75 - 125 | |
| | MSD | 1621550-01 | ND | 396.39 | 400.00 | ug/L | 6.0 | 99.1 | 20 | 75 - 125 | |
| **Total Vanadium** | DUP | **1621550-01** | **2.8936** | **4.5683** | | **ug/L** | **44.9** | | **20** | | **J,A02** |
| | MS | **1621550-01** | **2.8936** | **215.39** | **200.00** | **ug/L** | | **106** | | **75 - 125** | |
| | MSD | **1621550-01** | **2.8936** | **205.66** | **200.00** | **ug/L** | **4.6** | **101** | **20** | **75 - 125** | |
| Total Zinc | DUP | 1621550-01 | 160.30 | 155.91 | | ug/L | 2.8 | | 20 | | |
| | MS | 1621550-01 | 160.30 | 630.35 | 500.00 | ug/L | | 94.0 | | 75 - 125 | |
| | MSD | 1621550-01 | 160.30 | 587.89 | 500.00 | ug/L | 7.0 | 85.5 | 20 | 75 - 125 | |
| **QC Batch ID: BZH1123** | Used client sample: N | | | | | | | | | | |
| Total Mercury | DUP | 1621864-02 | ND | ND | | ug/L | | | 20 | | |
| | MS | 1621864-02 | ND | 1.1075 | 1.0000 | ug/L | | 111 | | 70 - 130 | |
| | MSD | 1621864-02 | ND | 1.0600 | 1.0000 | ug/L | 4.4 | 106 | 20 | 70 - 130 | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 09/02/2016 17:21
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

## Notes And Definitions

| | |
|---|---|
| J | Estimated Value (CLP Flag) |
| MDL | Method Detection Limit |
| ND | Analyte Not Detected |
| PQL | Practical Quantitation Limit |
| A02 | The difference between duplicate readings is less than the quantitation limit. |
| A10 | Detection and quantitation limits were raised due to matrix interference. |
| Q01 | Sample precision is not within the control limits. |
| Q02 | Matrix spike precision is not within the control limits. |
| Q03 | Matrix spike recovery(s) is(are) not within the control limits. |
| S09 | The surrogate recovery on the sample for this compound was not within the control limits. |

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Date of Report: 10/13/2016

Travis Stravasnik

E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

| | |
|---|---|
| Client Project: | 16-201-005 |
| BCL Project: | LAUSD - San Pedro HS |
| BCL Work Order: | 1621628 |
| Invoice ID: | B243736, B245309, B249069 |

Enclosed are the results of analyses for samples received by the laboratory on 8/4/2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature



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Total Concentrations (TTLC) ..... 27

**1621628-03 - SB1-24**
Total Concentrations (TTLC) ..... 28

**1621628-04 - SB2-00**
Organochlorine Pesticides (EPA Method 8081A) ..... 29
Total Concentrations (TTLC) ..... 30

**1621628-05 - SB2-12**
Total Concentrations (TTLC) ..... 31

**1621628-07 - SB3-00**
Organochlorine Pesticides (EPA Method 8081A) ..... 32
Total Concentrations (TTLC) ..... 33

**1621628-08 - SB3-12**
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**1621628-10 - SB4-00**
Organochlorine Pesticides (EPA Method 8081A) ..... 35
Total Concentrations (TTLC) ..... 36

**1621628-11 - SB5-00**
Organochlorine Pesticides (EPA Method 8081A) ..... 37
Total Concentrations (TTLC) ..... 38

**1621628-14 - SB6-00**
Organochlorine Pesticides (EPA Method 8081A) ..... 39
Total Concentrations (TTLC) ..... 40

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Organochlorine Pesticides (EPA Method 8081A) ..... 42
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Total Concentrations (TTLC) ..... 46

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Total Concentrations (TTLC) ..... 47

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Total Concentrations (TTLC)..... 65
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**Chain of Custody and Cooler Receipt Form for 1621628 Page 1 of 12**

16-21628

**BC LABORATORIES, INC.** 4100 Atlas Court, Bakersfield, CA 93308 Phone (661) 327-4911 FAX (661) 327-1918

**CHAIN OF CUSTODY**

**Project Information**

**Name:** E2Managetech, Inc.
**Phone:** office: 562-740-1060

**Address:** 5001 Airport Plaza Dr, # 260, Long Beach, CA 90815
**Project:** LAUSD - San Pedro HS

**Attn:** Travis Stravasnik (tstravasnik@e2mt.com)
**Project #:** 16-201-005

**Sampler(s):** Kevin Lin; Gabriela Valenzuela
**PO#**

**Comments:** Normal Turnaround Time; Surface samples (-00) are to be tested initially; deeper samples (-12 and -24) on hold

| Lab# | Sample ID | # of Containers | Date | Time | Sample Matrix: Soil | Water | Lead - EPA Method 6010B | Arsenic - EPA Method 6010B | Organochlorine Pesticides - EPA Method 8081 | Polychlorinated Biphenyls - EPA Method 8082 | TPH (gas, diesel, oil) - EPA Method 8015 | VOCs - EPA Method 8260B | CAM 22/TZ2 Metals | Analysis Requested |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -1 | SB1-00 | 1 | 8/1/2016 | 1554 | X | | X | X | X | | | | | |
| -2 | SB1-12 | 1 | 8/1/2016 | 1556 | X | | X | X | X | | | | | |
| -3 | SB1-24 | 1 | 8/1/2016 | 1600 | X | | X | X | X | | | | | |
| -4 | SB2-00 | 1 | 8/3/2016 | 0724 | X | | X | X | X | | | | | |
| -5 | SB2-12 | 1 | 8/3/2016 | 0729 | X | | X | X | X | | | | | |
| -6 | SB2-24 | 1 | 8/3/2016 | 0741 | X | | X | X | X | | | | | |
| -7 | SB3-00 | 1 | 8/3/2016 | 0747 | X | | X | X | X | | | | | |
| -8 | SB3-12 | 1 | 8/3/2016 | 0749 | X | | X | X | X | | | | | |
| -9 | SB3-24 | 1 | 8/3/2016 | 0755 | X | | X | X | X | | | | | |
| -10 | SB4-00 | 1 | 8/2/2016 | 1628 | X | | X | X | X | | | | | |

CHK BY DISTRIBUTION
SUB-OUT

Relinquished By: Received By: Date and Time: 8/4/16 1440
Relinquished By: 8/4/16 5 Received By: Date and Time: 8-4-16 1700
Relinquished By: 8-4-16 1900 Received By: Date and Time: 8.4.16 1900

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**Chain of Custody and Cooler Receipt Form for 1621628 Page 2 of 12**

16-21628

**BC LABORATORIES, INC.** 4100 Atlas Court, Bakersfield, CA 93308 Phone (661) 327-4911 FAX (661) 327-1918

**CHAIN OF CUSTODY**

**Project Information**

**Name:** E2Managetech, Inc.
**Phone:** office: 562-740-1060

**Address:** 5001 Airport Plaza Dr, # 260, Long Beach, CA 90815
**Project:** LAUSD - San Pedro HS

**Attn:** Travis Stravasnik (tstravasnik@e2mt.com)
**Project #:** 16-201-005

**Sampler(s):** Kevin Lin; Gabriela Valenzuela
**PO#**

**Comments:** Normal Turnaround Time; Surface samples (-00) are to be tested initially; deeper samples (-12 and -24) on hold

| Lab# | Sample ID | # of Containers | Date | Time | Sample Matrix: Soil | Water | Lead - EPA Method 6010B | Arsenic - EPA Method 6010B | Organochlorine Pesticides - EPA Method 8081 | Polychlorinated Biphenyls - EPA Method 8082 | TPH (gas, diesel, oil) - EPA Method 8015 | VOCs - EPA Method 8260B | CAM 22/T22 Metals | Analysis Requested |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -11 | SB5-00 | 1 | 8/2/2016 | 1611 | X | | X | X | X | | | | | |
| -12 | SB5-12 | 1 | 8/2/2016 | 1615 | X | | X | X | X | | | | | |
| -13 | SB5-24 | 1 | 8/2/2016 | 1617 | X | | X | X | X | | | | | |
| -14 | SB6-00 | 1 | 8/2/2016 | 1654 | X | | X | X | X | | | | | |
| -15 | SB6-12 | 1 | 8/2/2016 | 1659 | X | | X | X | X | | | | | |
| -16 | SB7-00 | 1 | 8/3/2016 | 0851 | X | | X | X | X | | | | | |
| -17 | SB7-12 | 1 | 8/3/2016 | 0856 | X | | X | X | X | | | | | |
| -18 | SB7-24 | 1 | 8/3/2016 | 0901 | X | | X | X | X | | | | | |
| -19 | SB8-00 | 1 | 8/3/2016 | 0830 | X | | X | X | X | | | | | |
| -20 | SB8-12 | 1 | 8/3/2016 | 0843 | X | | X | X | X | | | | | |

Relinquished By: Received By: Date and Time: 8/4/16 1440
Relinquished By: Received By: Date and Time: 8/4/16 1700
Relinquished By: Received By: Date and Time: 8/4/16 1900

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**Chain of Custody and Cooler Receipt Form for 1621628 Page 3 of 12**

16-21628

**BC LABORATORIES, INC.** | 4100 Atlas Court, Bakersfield, CA 93308 Phone (661) 327-4911 FAX (661) 327-1918 | **CHAIN OF CUSTODY**

**Project Information**

**Name:** E2Managetech, Inc. **Phone:** office: 562-740-1060

**Address:** 5001 Airport Plaza Dr, # 260, Long Beach, CA 90815 **Project:** LAUSD - San Pedro HS

**Attn:** Travis Stravasnik (tstravasnik@e2mt.com) **Project #:** 16-201-005

**Sampler(s):** Kevin Lin; Gabriela Valenzuela **PO#**

**Comments:** Normal Turnaround Time; Surface samples (-00) are to be tested initially; deeper samples (-12 and -24) on hold

| Lab# | Sample ID | # of Containers | Date | Time | Sample Matrix: Soil | Water | Lead - EPA Method 6010B | Arsenic - EPA Method 6010B | Organochlorine Pesticides - EPA Method 8081 | Polychlorinated Biphenyls - EPA Method 8082 | TPH (gas, diesel, oil) - EPA Method 8015 | VOCs - EPA Method 8260B | CAM 22/T22 Metals | Analysis Requested |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -21 | SB9-00 | 1 | 8/2/2016 | 1726 | X | | X | X | X | | | | | |
| -22 | SB9-12 | 1 | 8/2/2016 | 1729 | X | | X | X | X | X | | | | |
| -23 | SB9-24 | 1 | 8/2/2016 | 1731 | X | | X | X | X | | | | | |
| -24 | SB10-00 | 1 | 8/3/2016 | 0935 | X | | X | X | X | X | | | | |
| -25 | SB10-12 | 1 | 8/3/2016 | 0940 | X | | X | X | X | X | | | | |
| -26 | SB10-24 | 1 | 8/3/2016 | 0943 | X | | X | X | X | X | | | | |
| -27 | SB11-00 | 1 | 8/3/2016 | 0919 | X | | X | X | X | | | | | |
| -28 | SB11-12 | 1 | 8/3/2016 | 0922 | X | | X | X | X | | | | | |
| -29 | SB11-24 | 1 | 8/3/2016 | 0926 | X | | X | X | X | | | | | |
| -30 | SB12-00 | 1 | 8/3/2016 | 0804 | X | | X | X | X | | | | | |
| -31 | SB12-12 | 1 | 8/3/2016 | 0810 | X | | X | X | X | | | | | |

Relinquished By: Received By: Date and Time: 8/4/16 1448

Relinquished By: Received By: Date and Time: 8/4/16 1700

Relinquished By: Received By: Date and Time: 8-4-16 1900

**Chain of Custody and Cooler Receipt Form for 1621628 Page 4 of 12**

16-21628

**BC LABORATORIES, INC.** | 4100 Atlas Court, Bakersfield, CA 93308 Phone (661) 327-4911 FAX (661) 327-1918 | **CHAIN OF CUSTODY**

**Project Information**

**Name:** E2Managetech, Inc.
**Phone:** office: 562-740-1060
**Address:** 5001 Airport Plaza Dr, # 260, Long Beach, CA 90815
**Project:** LAUSD - San Pedro HS
**Attn:** Travis Stravasnik (tstravasnik@e2mt.com)
**Project #:** 16-201-005
**Sampler(s):** Kevin Lin; Gabriela Valenzuela
**PO#**
**Comments:** Normal Turnaround Time; Surface samples (-00) are to be tested initially; deeper samples (-12 and -24) on hold

| Lab# | Sample ID | | # of Containers | Date | Time | Sample Matrix: Soil | Water | Lead - EPA Method 6010B | Arsenic - EPA Method 6010B | Organochlorine Pesticides - EPA Method 8081 | Polychlorinated Biphenyls - EPA Method 8082 | TPH (gas, diesel, oil) - EPA Method 8015 | VOCs - EPA Method 8260B | CAM 22/T22 Metals | Analysis Requested |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -32 | SB13-00 | ✓ | 1 | 8/2/2016 | 1749 | X | | X | X | X | | | | | |
| -33 | SB13-12 | ✓ | 1 | 8/2/2016 | 1755 | X | | X | X | X | | | | | |
| -34 | SB13-24 | ✓ | 1 | 8/2/2016 | 1801 | X | | X | X | X | | | | | |
| -35 | SB14-00 | ✓ | 1 | 8/3/2016 | 1112 | X | | X | X | X | | | | | |
| -36 | SB15-00 | ✓ | 1 | 8/3/2016 | 1010 | X | | X | X | X | | | | | |
| -37 | SB15-12 | ✓ | 1 | 8/3/2016 | 1035 | X | | X | X | X | | | | | |
| -38 | SB15-24 | ✓ | 1 | 8/3/2016 | 1039 | X | | X | X | X | | | | | |
| -39 | SB16-00 | ✓ | 1 | 8/3/2016 | 0951 | X | | X | X | X | | | | | |
| -40 | SB16-12 | ✓ | 1 | 8/3/2016 | 0954 | X | | X | X | X | | | | | |
| -41 | SB17-00 | ✓ | 1 | 8/3/2016 | 1200 | X | | X | X | X | | | | | |
| -42 | SB17-12 | ✓ | 1 | 8/3/2016 | 1204 | X | | X | X | X | | | | | |
| -43 | SB17-24 | ✓ | 1 | 8/3/2016 | 1208 | X | | X | X | X | | | | | |

Relinquished By: Received By: Date and Time: 8/4/16 1446
Relinquished By: Received By: Date and Time: 8/4/16 1700
Relinquished By: Received By: Date and Time: 8/4/16 1900

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**Chain of Custody and Cooler Receipt Form for 1621628 Page 5 of 12**

16-21628

**BC LABORATORIES, INC.** 4100 Atlas Court, Bakersfield, CA 93308 Phone (661) 327-4911 FAX (661) 327-1918

**CHAIN OF CUSTODY**

**Project Information**

**Name:** E2Managetech, Inc.

**Address:** 5001 Airport Plaza Dr, # 260, Long Beach, CA 90815

**Attn:** Travis Stravasnik (tstravasnik@e2mt.com)

**Sampler(s):** Kevin Lin; Gabriela Valenzuela

**Phone:** office: 562-740-1060

**Project:** LAUSD - San Pedro HS

**Project #:** 16-201-005

**PO#**

**Comments:** Normal Turnaround Time; Surface samples (-00) are to be tested initially; deeper samples (-12 and -24) on hold

| Lab# | Sample ID | | # of Containers | Date | Time | Sample Matrix: Soil | Water | Lead - EPA Method 6010B | Arsenic - EPA Method 6010B | Organochlorine Pesticides - EPA Method 8081 | Polychlorinated Biphenyls - EPA Method 8082 | TPH (gas, diesel, oil) - EPA Method 8015 | VOCs - EPA Method 8260B | CAM 22/T22 Metals | Analysis Requested |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -44 | SB18-00 | ✓ | 1 | 8/3/2016 | 1241 | X | | X | X | X | | | | | |
| -45 | SB18-12 | ✓ | 1 | 8/3/2016 | 1244 | X | | X | X | X | | | | | |
| -46 | SB18-24 | ✓ | 1 | 8/3/2016 | 1246 | X | | X | X | X | | | | | |
| -47 | SB19-00 | ✓ | 1 | 8/3/2016 | 1142 | X | | X | X | X | | | | | |
| -48 | SB19-12 | ✓ | 1 | 8/3/2016 | 1146 | X | | X | X | X | | | | | |
| -49 | SB19-24 | ✓ | 1 | 8/3/2016 | 1150 | X | | X | X | X | | | | | |
| -50 | SB20-00 | ✓ | 1 | 8/3/2016 | 1126 | X | | X | X | X | X | | | | |
| -51 | SB20-12 | ✓ | 1 | 8/3/2016 | 1130 | X | | X | X | X | X | | | | |
| -52 | SB20-24 | ✓ | 1 | 8/3/2016 | 1133 | X | | X | X | X | X | | | | |
| -53 | SB21-00 | ✓ | 1 | 8/1/2016 | 1310 | X | | X | X | X | | | | | |
| -54 | SB21-12 | ✓ | 1 | 8/1/2016 | 1314 | X | | X | X | X | | | | | |
| -55 | SB21-24 | ✓ | 1 | 8/1/2016 | 1316 | X | | X | X | X | | | | | |

Relinquished By: Received By: Date and Time: 8/4/16 1440

Relinquished By: Received By: Date and Time: 8/5/16 1100

Relinquished By: Received By: Date and Time: 8/4/16 1900

**Chain of Custody and Cooler Receipt Form for 1621628 Page 6 of 12**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 2

Submission #: 16-21628

**SHIPPING INFORMATION**
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

**SHIPPING CONTAINER**
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

**FREE LIQUID**
YES ☐ NO ☐
W (S)

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: Clear glass Thermometer ID: 208

Temperature: (A) 0.5 °C / (C) 0.5 °C

Date/Time 8-4 1855

Analyst Init ARL

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | 5 | 6 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:_____
Sample Numbering Completed By: ____ Date/Time: 8/5/16 1235
A = Actual / C = Corrected

Rev 21 05/23/2016
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**Chain of Custody and Cooler Receipt Form for 1621628 Page 7 of 12**

BC LABORATORIES INC. — COOLER RECEIPT FORM — Page 2 Of 7

Submission #: 16-21628

**SHIPPING INFORMATION**
Fed Ex ☐ UPS ☑ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

**SHIPPING CONTAINER**
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

**FREE LIQUID**
YES ☐ NO ☐
W / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ (Intact? Yes ☐ No ☐) Containers ☐ (Intact? Yes ☐ No ☐) None ☑ Comments:

All samples received? Yes ☐ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received: ☑ YES ☐ NO

Emissivity: 0.95 Container: Clear glass Thermometer ID: 208 Date/Time 8-4 1855

Temperature: (A) 0.5 °C / (C) 0.5 °C Analyst Init ARL

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 27 | 28 | 29 | 32 | 33 | 34 | 35 | 36 | 37 | 38 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:
Sample Numbering Completed By: ODA Date/Time: 8/5/16 1235
A = Actual / C = Corrected

Rev 21 05/23/2016
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**Chain of Custody and Cooler Receipt Form for 1621628 Page 8 of 12**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 Of 4

Submission #: 16-21628

SHIPPING INFORMATION
Fed Ex ☐ UPS ☑ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: clear glass Thermometer ID: 208

Temperature: (A) 0.5 °C / (C) 0.5 °C

Date/Time 8-4 1855

Analyst Init ARL

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | A | A | A | A | A | A | A | A | A | A |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:
Sample Numbering Completed By: CBA Date/Time: 8/5/16 1235
A = Actual / C = Corrected

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**Chain of Custody and Cooler Receipt Form for 1621628 Page 9 of 12**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 4 Of 7

Submission #: 16-21628

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
W / (S)

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: Clear glass Thermometer ID: 208

Temperature: (A) 0.5 °C / (C) 0.5 °C

Date/Time 8-4 1855

Analyst Init ARL

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 49 | 50 | 51 | 52 | 5 | 6 | 7 | 8 | 9 | 10 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

COA 8/5/16

Comments:

Sample Numbering Completed By: COA Date/Time: 8/5/16 1235

A = Actual / C = Corrected

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**Chain of Custody and Cooler Receipt Form for 1621628 Page 10 of 12**

Page 208 of 1

COOLER RECEIPT FORM

BC LABORATORIES INC.

Submission #: 16-21628

SHIPPING INFORMATION
Fed Ex ☐ UPS ☑ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: A clear 8oz jar Thermometer ID: 208

Temperature: (A) 3.1 °C / (C) 3.1 °C

Date/Time 8-4 1855

Analyst Init ARL

| SAMPLE CONTAINERS | SAMPLE NUMBERS 10 | 53 | 54 | 55 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:_____

Sample Numbering Completed By: CBA

Date/Time: 8/5/16 1235

A = Actual / C = Corrected

Rev 21 05/23/2016
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**Chain of Custody and Cooler Receipt Form for 1621628 Page 11 of 12**

COOLER RECEIPT FORM — Page 6 Of 7

BC LABORATORIES INC.

Submission #: 16-21628

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: clear glass Thermometer ID: 208

Temperature: (A) 0.0 °C / (C) 0.0 °C

Date/Time 8-4 1855

Analyst Init ARL

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 7 | 8 | 9 | 11 | 12 | 13 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | A | A | A | A | A | A | A | A | A | A |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments: COA

Sample Numbering Completed By: _____ Date/Time: 8/5/16 1235

Rev 21 05/23/2016
[S:\WPDocs\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 20]

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**Chain of Custody and Cooler Receipt Form for 1621628 Page 12 of 12**

Page 1 Of 4

BC LABORATORIES INC. — COOLER RECEIPT FORM

Submission #: 16-21628

SHIPPING INFORMATION: Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER: Ice Chest ☑ None ☐ Box ☐ Other ☐ (Specify)_____

FREE LIQUID: YES ☐ NO ☐ W / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: Glass Thermometer ID: 208 Date/Time 8.4 1855

Temperature: (A) 0.0 °C / (C) 0.0 °C Analyst Init ARL

| SAMPLE CONTAINERS | SAMPLE NUMBERS 22 | 23 | 24 | 25 | 26 | 30 | 31 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | A | A | A | A | A | A | A | | | |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:_____ Sample Numbering Completed By: CBA Date/Time: 8/5/16 1235

Rev 21 05/23/2016 (S:\WPDocs\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 20)

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1621628-01** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 15:54 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB1-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-02** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 15:56 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB1-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-03** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 16:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB1-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-04** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 07:24 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB2-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-05** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 07:29 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB2-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-06** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 07:41 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB2-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-07** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 07:47 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB3-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1621628-08** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 07:49 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB3-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-09** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 07:55 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB3-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-10** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 16:28 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB4-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-11** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 16:11 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB5-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-12** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 16:15 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB5-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-13** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 16:17 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB5-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-14** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 16:54 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB6-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1621628-15** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 16:59 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB6-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-16** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 08:51 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB7-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-17** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 08:56 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB7-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-18** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 09:01 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB7-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-19** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 08:30 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB8-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-20** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 08:43 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB8-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-21** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 17:26 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB9-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1621628-22** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 17:29 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB9-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-23** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 17:31 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB9-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-24** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 09:35 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB10-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-25** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 09:40 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB10-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-26** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 09:43 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB10-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-27** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 09:19 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB11-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-28** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 09:22 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB11-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1621628-29** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 09:26 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB11-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-30** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 08:04 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB12-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-31** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 08:10 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB12-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-32** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 17:49 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB13-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-33** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 17:55 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB13-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-34** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 18:01 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB13-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-35** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 11:12 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB14-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1621628-36** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 10:10 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB15-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-37** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 10:35 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB15-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-38** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 10:39 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB15-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-39** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 09:51 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB16-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-40** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 09:54 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB16-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-41** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 12:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB17-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-42** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 12:04 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB17-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1621628-43** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 12:08 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB17-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-44** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 12:41 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB18-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-45** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 12:44 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB18-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-46** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 12:46 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB18-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-47** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 11:42 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB19-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-48** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 11:46 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB19-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-49** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 11:50 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB19-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1621628-50** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 11:26 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB20-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-51** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 11:30 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB20-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-52** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 11:33 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB20-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-53** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 13:10 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB21-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-54** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 13:14 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB21-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621628-55** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 13:16 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB21-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621628-01 | **Client Sample Name:** SB1-00, 8/1/2016 3:54:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.050 | 0.0015 | EPA-8081A | 2.5 | | 1 |
| **4,4'-DDD** | **0.00063** | **mg/kg** | **0.00050** | **0.000085** | **EPA-8081A** | 1.0 | | 1 |
| **4,4'-DDE** | **0.0013** | **mg/kg** | **0.00050** | **0.000083** | **EPA-8081A** | 1.0 | | 1 |
| **4,4'-DDT** | **0.00053** | **mg/kg** | **0.00050** | **0.000078** | **EPA-8081A** | 1.0 | | 1 |
| **Dieldrin** | **0.00014** | **mg/kg** | **0.00050** | **0.000070** | **EPA-8081A** | 8.0 | **J** | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 74.6 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 67.9 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/12/16 18:57 | HKS | GC-17 | 1.003 | BZH1159 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-01 | **Client Sample Name:** SB1-00, 8/1/2016 3:54:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **14** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **10** | **mg/kg** | **5.0** | **0.56** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/09/16 15:05 | JCC | PE-OP3 | 2 | BZH0819 |

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**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-02 | **Client Sample Name:** SB1-12, 8/1/2016 3:56:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **28** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/01/16 | 09/06/16 10:51 | JCC | PE-OP3 | 5 | BZI0155 |

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**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-03 | **Client Sample Name:** SB1-24, 8/1/2016 4:00:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **4.7** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/07/16 | 10/12/16 17:23 | JCC | PE-OP3 | 1.887 | BZJ0692 |

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**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621628-04 | **Client Sample Name:** SB2-00, 8/3/2016 7:24:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| **Chlordane (Technical)** | **0.017** | **mg/kg** | **0.050** | **0.0015** | **EPA-8081A** | 2.5 | **J** | 1 |
| 4,4'-DDD | ND | mg/kg | 0.00050 | 0.000085 | EPA-8081A | 1.0 | | 1 |
| **4,4'-DDE** | **0.00066** | **mg/kg** | **0.00050** | **0.000083** | **EPA-8081A** | 1.0 | | 1 |
| **4,4'-DDT** | **0.0011** | **mg/kg** | **0.00050** | **0.000078** | **EPA-8081A** | 1.0 | | 1 |
| Dieldrin | ND | mg/kg | 0.00050 | 0.000070 | EPA-8081A | 8.0 | | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 72.6 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 59.6 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/12/16 21:08 | HKS | GC-17 | 1.014 | BZH1159 |

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Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-04 | **Client Sample Name:** SB2-00, 8/3/2016 7:24:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **12** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **59** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/09/16 13:28 | JCC | PE-OP3 | 0.917 | BZH0819 |

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**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-05 | **Client Sample Name:** SB2-12, 8/3/2016 7:29:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **8.1** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/01/16 | 09/06/16 11:12 | JCC | PE-OP3 | 4.808 | BZI0155 |

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**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621628-07 | **Client Sample Name:** SB3-00, 8/3/2016 7:47:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0025 | 0.00032 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0025 | 0.00036 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0025 | 0.00030 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0025 | 0.00017 | EPA-8081A | 4.0 | A10 | 1 |
| **Chlordane (Technical)** | **0.022** | **mg/kg** | **0.25** | **0.0075** | **EPA-8081A** | 2.5 | **J,A10** | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0025 | 0.00042 | EPA-8081A | 1.0 | A10 | 1 |
| **4,4'-DDE** | **0.0026** | **mg/kg** | **0.0025** | **0.00042** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **4,4'-DDT** | **0.0029** | **mg/kg** | **0.0025** | **0.00039** | **EPA-8081A** | 1.0 | **A10** | 1 |
| Dieldrin | ND | mg/kg | 0.0025 | 0.00035 | EPA-8081A | 8.0 | A10 | 1 |
| Endosulfan I | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0025 | 0.00050 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0025 | 0.00048 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0025 | 0.00039 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.25 | 0.0065 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 79.4 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 61.6 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/12/16 22:35 | HKS | GC-17 | 5.034 | BZH1159 |

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Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-07 | **Client Sample Name:** SB3-00, 8/3/2016 7:47:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **11** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **110** | **mg/kg** | **5.0** | **0.56** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 14:06 | JCC | PE-OP3 | 1.835 | BZH0819 |

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**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-08 | **Client Sample Name:** SB3-12, 8/3/2016 7:49:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.9** | **mg/kg** | **12** | **1.4** | **EPA-6010B** | 1000 | **J,A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/01/16 | 09/06/16 11:14 | JCC | PE-OP3 | 4.854 | BZI0155 |

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**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621628-10 | **Client Sample Name:** SB4-00, 8/2/2016 4:28:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.050 | 0.0015 | EPA-8081A | 2.5 | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.00050 | 0.000085 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.00050 | 0.000083 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | 1.0 | | 1 |
| Dieldrin | ND | mg/kg | 0.00050 | 0.000070 | EPA-8081A | 8.0 | | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 68.1 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 60.7 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/12/16 19:12 | HKS | GC-17 | 1.007 | BZH1159 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-10 | **Client Sample Name:** SB4-00, 8/2/2016 4:28:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **26** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **4.4** | **mg/kg** | **5.0** | **0.56** | **EPA-6010B** | 1000 | **J,A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 14:07 | JCC | PE-OP3 | 1.942 | BZH0819 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621628-11 | **Client Sample Name:** SB5-00, 8/2/2016 4:11:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0010 | 0.00013 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0010 | 0.00012 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0010 | 0.000068 | EPA-8081A | 4.0 | A10 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.10 | 0.0030 | EPA-8081A | 2.5 | A10 | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0010 | 0.00016 | EPA-8081A | 1.0 | A10 | 1 |
| Dieldrin | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | 8.0 | A10 | 1 |
| Endosulfan I | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0010 | 0.00020 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0010 | 0.00019 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0010 | 0.00016 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.10 | 0.0026 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 71.3 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 54.6 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/12/16 21:37 | HKS | GC-17 | 2.013 | BZH1159 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-11 | **Client Sample Name:** SB5-00, 8/2/2016 4:11:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **9.2** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **5.9** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/09/16 13:32 | JCC | PE-OP3 | 0.980 | BZH0819 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621628-14 | **Client Sample Name:** SB6-00, 8/2/2016 4:54:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.050 | 0.0015 | EPA-8081A | 2.5 | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.00050 | 0.000085 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.00050 | 0.000083 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | 1.0 | | 1 |
| Dieldrin | ND | mg/kg | 0.00050 | 0.000070 | EPA-8081A | 8.0 | | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 71.1 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 61.1 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/12/16 19:26 | HKS | GC-17 | 1.010 | BZH1159 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-14 | **Client Sample Name:** SB6-00, 8/2/2016 4:54:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **12** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **4.2** | **mg/kg** | **12** | **1.4** | **EPA-6010B** | 1000 | **J,A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 14:10 | JCC | PE-OP3 | 4.902 | BZH0819 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-15 | **Client Sample Name:** SB6-12, 8/2/2016 4:59:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **9.0** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/01/16 | 09/06/16 11:15 | JCC | PE-OP3 | 4.808 | BZI0155 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621628-16 | **Client Sample Name:** SB7-00, 8/3/2016 8:51:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.050 | 0.0015 | EPA-8081A | 2.5 | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.00050 | 0.000085 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.00050 | 0.000083 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | 1.0 | | 1 |
| Dieldrin | ND | mg/kg | 0.00050 | 0.000070 | EPA-8081A | 8.0 | | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 73.9 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 61.0 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/12/16 19:41 | HKS | GC-17 | 1.007 | BZH1159 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-16 | **Client Sample Name:** SB7-00, 8/3/2016 8:51:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **12** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **94** | **mg/kg** | **5.0** | **0.56** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 14:11 | JCC | PE-OP3 | 1.835 | BZH0819 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-17 | **Client Sample Name:** SB7-12, 8/3/2016 8:56:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **8.9** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **15** | **mg/kg** | **12** | **1.4** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/01/16 | 09/06/16 11:17 | JCC | PE-OP3 | 4.673 | BZI0155 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621628-19 | **Client Sample Name:** SB8-00, 8/3/2016 8:30:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0010 | 0.00013 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0010 | 0.00012 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0010 | 0.000068 | EPA-8081A | 4.0 | A10 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.10 | 0.0030 | EPA-8081A | 2.5 | A10 | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 1.0 | A10 | 1 |
| **4,4'-DDT** | **0.00069** | **mg/kg** | **0.0010** | **0.00016** | **EPA-8081A** | 1.0 | **J,A10** | 1 |
| Dieldrin | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | 8.0 | A10 | 1 |
| Endosulfan I | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0010 | 0.00020 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0010 | 0.00019 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0010 | 0.00016 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.10 | 0.0026 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 69.4 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 58.8 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/12/16 22:06 | HKS | GC-17 | 2.013 | BZH1159 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-19 | **Client Sample Name:** SB8-00, 8/3/2016 8:30:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **18** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **11** | **mg/kg** | **5.0** | **0.56** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 14:13 | JCC | PE-OP3 | 1.887 | BZH0819 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-20 | **Client Sample Name:** SB8-12, 8/3/2016 8:43:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **10** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/01/16 | 09/06/16 11:19 | JCC | PE-OP3 | 4.902 | BZI0155 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621628-21 | **Client Sample Name:** SB9-00, 8/2/2016 5:26:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0010 | 0.00013 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0010 | 0.00012 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0010 | 0.000068 | EPA-8081A | 4.0 | A10 | 1 |
| **Chlordane (Technical)** | **0.0080** | **mg/kg** | **0.10** | **0.0030** | **EPA-8081A** | 2.5 | **J,A10** | 1 |
| **4,4'-DDD** | **0.0027** | **mg/kg** | **0.0010** | **0.00017** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **4,4'-DDE** | **0.0028** | **mg/kg** | **0.0010** | **0.00017** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **4,4'-DDT** | **0.0051** | **mg/kg** | **0.0010** | **0.00016** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **Dieldrin** | **0.0011** | **mg/kg** | **0.0010** | **0.00014** | **EPA-8081A** | 8.0 | **A10** | 1 |
| Endosulfan I | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0010 | 0.00020 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0010 | 0.00019 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0010 | 0.00016 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.10 | 0.0026 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 52.2 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 41.7 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/12/16 22:21 | HKS | GC-17 | 2.007 | BZH1159 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-21 | **Client Sample Name:** SB9-00, 8/2/2016 5:26:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **12** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **170** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/09/16 13:38 | JCC | PE-OP3 | 0.926 | BZH0819 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-22 | **Client Sample Name:** SB9-12, 8/2/2016 5:29:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **11** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **7.4** | **mg/kg** | **12** | **1.4** | **EPA-6010B** | 1000 | **J,A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/01/16 | 09/06/16 11:20 | JCC | PE-OP3 | 4.673 | BZI0155 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621628-24 | **Client Sample Name:** SB10-00, 8/3/2016 9:35:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0010 | 0.00013 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0010 | 0.00012 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0010 | 0.000068 | EPA-8081A | 4.0 | A10 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.10 | 0.0030 | EPA-8081A | 2.5 | A10 | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0010 | 0.00016 | EPA-8081A | 1.0 | A10 | 1 |
| Dieldrin | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | 8.0 | A10 | 1 |
| Endosulfan I | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0010 | 0.00020 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0010 | 0.00019 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0010 | 0.00016 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.10 | 0.0026 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 68.0 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 60.1 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/12/16 21:52 | HKS | GC-17 | 2.020 | BZH1159 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# PCB Analysis (EPA Method 8082)

**BCL Sample ID:** 1621628-24 | **Client Sample Name:** SB10-00, 8/3/2016 9:35:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | mg/kg | 0.010 | 0.0039 | EPA-8082 | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 0.010 | 0.0072 | EPA-8082 | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 0.010 | 0.0074 | EPA-8082 | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 0.010 | 0.0042 | EPA-8082 | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 0.010 | 0.0070 | EPA-8082 | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 0.010 | 0.0032 | EPA-8082 | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 0.010 | 0.0029 | EPA-8082 | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 0.010 | 0.0050 | EPA-8082 | 50 | | 1 |
| Decachlorobiphenyl (Surrogate) | 63.3 | % | 40 - 120 (LCL - UCL) | | EPA-8082 | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8082 | 08/10/16 | 08/11/16 13:22 | HKS | GC-15 | 1.007 | BZH1085 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-24 | **Client Sample Name:** SB10-00, 8/3/2016 9:35:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **11** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **7.6** | **mg/kg** | **12** | **1.4** | **EPA-6010B** | 1000 | **J,A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 14:14 | JCC | PE-OP3 | 4.902 | BZH0819 |

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Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621628-27 | **Client Sample Name:** SB11-00, 8/3/2016 9:19:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0095 | 0.0010 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0095 | 0.0012 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0095 | 0.0013 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0095 | 0.0011 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0095 | 0.00065 | EPA-8081A | 4.0 | A10 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.95 | 0.028 | EPA-8081A | 2.5 | A10 | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0095 | 0.0016 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0095 | 0.0016 | EPA-8081A | 1.0 | A10 | 1 |
| **4,4'-DDT** | **0.0024** | **mg/kg** | **0.0095** | **0.0015** | **EPA-8081A** | 1.0 | **J,A10** | 1 |
| Dieldrin | ND | mg/kg | 0.0095 | 0.0013 | EPA-8081A | 8.0 | A10 | 1 |
| Endosulfan I | ND | mg/kg | 0.0095 | 0.0017 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0095 | 0.0021 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0095 | 0.0019 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0095 | 0.0017 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0095 | 0.0018 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0095 | 0.0011 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0095 | 0.0015 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0095 | 0.0021 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.95 | 0.025 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 49.5 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 44.2 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/12/16 22:50 | HKS | GC-17 | 18.987 | BZH1159 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-27 | **Client Sample Name:** SB11-00, 8/3/2016 9:19:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **20** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **26** | **mg/kg** | **5.0** | **0.56** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 14:16 | JCC | PE-OP3 | 1.869 | BZH0819 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-28 | **Client Sample Name:** SB11-12, 8/3/2016 9:22:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **17** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/01/16 | 09/06/16 11:22 | JCC | PE-OP3 | 4.587 | BZI0155 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-29 | **Client Sample Name:** SB11-24, 8/3/2016 9:26:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **13** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/07/16 | 10/12/16 17:13 | JCC | PE-OP3 | 5 | BZJ0692 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
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**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621628-30 | **Client Sample Name:** SB12-00, 8/3/2016 8:04:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.050 | 0.0015 | EPA-8081A | 2.5 | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.00050 | 0.000085 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.00050 | 0.000083 | EPA-8081A | 1.0 | | 1 |
| **4,4'-DDT** | **0.00051** | **mg/kg** | **0.00050** | **0.000078** | **EPA-8081A** | 1.0 | | 1 |
| Dieldrin | ND | mg/kg | 0.00050 | 0.000070 | EPA-8081A | 8.0 | | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 95.2 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 56.7 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/12/16 20:54 | HKS | GC-17 | 1.007 | BZH1159 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-30 | **Client Sample Name:** SB12-00, 8/3/2016 8:04:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **8.4** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **9.9** | **mg/kg** | **5.0** | **0.56** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 14:20 | JCC | PE-OP3 | 1.980 | BZH0819 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621628-32 | **Client Sample Name:** SB13-00, 8/2/2016 5:49:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.050 | 0.0015 | EPA-8081A | 2.5 | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.00050 | 0.000085 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.00050 | 0.000083 | EPA-8081A | 1.0 | | 1 |
| **4,4'-DDT** | **0.00017** | **mg/kg** | **0.00050** | **0.000078** | **EPA-8081A** | 1.0 | **J** | 1 |
| Dieldrin | ND | mg/kg | 0.00050 | 0.000070 | EPA-8081A | 8.0 | | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 103 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 80.7 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/12/16 21:23 | HKS | GC-17 | 1.017 | BZH1159 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-32 | **Client Sample Name:** SB13-00, 8/2/2016 5:49:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **5.7** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **46** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/09/16 13:48 | JCC | PE-OP3 | 0.917 | BZH0819 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621628-35 | **Client Sample Name:** SB14-00, 8/3/2016 11:12:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0050 | 0.00055 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0050 | 0.00064 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0050 | 0.00071 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0050 | 0.00059 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0050 | 0.00034 | EPA-8081A | 4.0 | A10 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.50 | 0.015 | EPA-8081A | 2.5 | A10 | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0050 | 0.00085 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0050 | 0.00083 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0050 | 0.00078 | EPA-8081A | 1.0 | A10 | 1 |
| Dieldrin | ND | mg/kg | 0.0050 | 0.00070 | EPA-8081A | 8.0 | A10 | 1 |
| Endosulfan I | ND | mg/kg | 0.0050 | 0.00087 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0050 | 0.0011 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0050 | 0.00099 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0050 | 0.00087 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0050 | 0.00097 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0050 | 0.00057 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0050 | 0.00078 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0050 | 0.0011 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.50 | 0.013 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 51.8 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 45.1 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/12/16 23:04 | HKS | GC-17 | 10.101 | BZH1159 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-35 | **Client Sample Name:** SB14-00, 8/3/2016 11:12:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **12** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **8.1** | **mg/kg** | **5.0** | **0.56** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 14:22 | JCC | PE-OP3 | 1.961 | BZH0819 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621628-36 | **Client Sample Name:** SB15-00, 8/3/2016 10:10:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.042 | 0.0046 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.042 | 0.0053 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.042 | 0.0059 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.042 | 0.0049 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.042 | 0.0028 | EPA-8081A | 4.0 | A10 | 1 |
| Chlordane (Technical) | ND | mg/kg | 4.2 | 0.12 | EPA-8081A | 2.5 | A10 | 1 |
| 4,4'-DDD | ND | mg/kg | 0.042 | 0.0071 | EPA-8081A | 1.0 | A10 | 1 |
| **4,4'-DDE** | **0.0071** | **mg/kg** | **0.042** | **0.0069** | **EPA-8081A** | 1.0 | **J,A10** | 1 |
| 4,4'-DDT | ND | mg/kg | 0.042 | 0.0065 | EPA-8081A | 1.0 | A10 | 1 |
| Dieldrin | ND | mg/kg | 0.042 | 0.0058 | EPA-8081A | 8.0 | A10 | 1 |
| Endosulfan I | ND | mg/kg | 0.042 | 0.0072 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.042 | 0.0092 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.042 | 0.0082 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.042 | 0.0072 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.042 | 0.0081 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.042 | 0.0048 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.042 | 0.0065 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.042 | 0.0092 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 4.2 | 0.11 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 85.2 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 79.8 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/13/16 00:17 | HKS | GC-17 | 83.333 | BZH1159 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-36 | **Client Sample Name:** SB15-00, 8/3/2016 10:10:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **12** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **15** | **mg/kg** | **5.0** | **0.56** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 14:23 | JCC | PE-OP3 | 1.961 | BZH0819 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-37 | **Client Sample Name:** SB15-12, 8/3/2016 10:35:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **9.9** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/01/16 | 09/06/16 11:24 | JCC | PE-OP3 | 4.630 | BZI0155 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621628-39 | **Client Sample Name:** SB16-00, 8/3/2016 9:51:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0050 | 0.00055 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0050 | 0.00064 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0050 | 0.00071 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0050 | 0.00059 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0050 | 0.00034 | EPA-8081A | 4.0 | A10 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.50 | 0.015 | EPA-8081A | 2.5 | A10 | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0050 | 0.00085 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0050 | 0.00083 | EPA-8081A | 1.0 | A10 | 1 |
| **4,4'-DDT** | **0.0020** | **mg/kg** | **0.0050** | **0.00078** | **EPA-8081A** | 1.0 | **J,A10** | 1 |
| Dieldrin | ND | mg/kg | 0.0050 | 0.00070 | EPA-8081A | 8.0 | A10 | 1 |
| Endosulfan I | ND | mg/kg | 0.0050 | 0.00087 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0050 | 0.0011 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0050 | 0.00099 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0050 | 0.00087 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0050 | 0.00097 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0050 | 0.00057 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0050 | 0.00078 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0050 | 0.0011 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.50 | 0.013 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 102 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 74.7 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/13/16 00:32 | HKS | GC-17 | 10.135 | BZH1159 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-39 | **Client Sample Name:** SB16-00, 8/3/2016 9:51:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **9.2** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **14** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/09/16 13:52 | JCC | PE-OP3 | 1 | BZH0819 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621628-41 | **Client Sample Name:** SB17-00, 8/3/2016 12:00:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.083 | 0.0092 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.083 | 0.011 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.083 | 0.012 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.083 | 0.0098 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.083 | 0.0057 | EPA-8081A | 4.0 | A10 | 1 |
| Chlordane (Technical) | ND | mg/kg | 8.3 | 0.25 | EPA-8081A | 2.5 | A10 | 1 |
| 4,4'-DDD | ND | mg/kg | 0.083 | 0.014 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDE | ND | mg/kg | 0.083 | 0.014 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDT | ND | mg/kg | 0.083 | 0.013 | EPA-8081A | 1.0 | A10 | 1 |
| Dieldrin | ND | mg/kg | 0.083 | 0.012 | EPA-8081A | 8.0 | A10 | 1 |
| Endosulfan I | ND | mg/kg | 0.083 | 0.014 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.083 | 0.018 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.083 | 0.016 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.083 | 0.014 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.083 | 0.016 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.083 | 0.0095 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.083 | 0.013 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.083 | 0.018 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 8.3 | 0.22 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 97.1 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 83.6 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/13/16 00:46 | HKS | GC-17 | 166.67 | BZH1159 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-41 | **Client Sample Name:** SB17-00, 8/3/2016 12:00:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **11** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **110** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/09/16 13:53 | JCC | PE-OP3 | 0.971 | BZH0819 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-42 | **Client Sample Name:** SB17-12, 8/3/2016 12:04:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **4.6** | **mg/kg** | **12** | **1.4** | **EPA-6010B** | 1000 | **J,A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/01/16 | 09/06/16 11:32 | JCC | PE-OP3 | 4.762 | BZI0155 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621628-44 | **Client Sample Name:** SB18-00, 8/3/2016 12:41:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0097 | 0.0011 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0097 | 0.0012 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0097 | 0.0014 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0097 | 0.0011 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0097 | 0.00066 | EPA-8081A | 4.0 | A10 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.97 | 0.029 | EPA-8081A | 2.5 | A10 | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0097 | 0.0017 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0097 | 0.0016 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0097 | 0.0015 | EPA-8081A | 1.0 | A10 | 1 |
| **Dieldrin** | **0.0014** | **mg/kg** | **0.0097** | **0.0014** | **EPA-8081A** | 8.0 | **J,A10** | 1 |
| Endosulfan I | ND | mg/kg | 0.0097 | 0.0017 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0097 | 0.0021 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0097 | 0.0019 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0097 | 0.0017 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0097 | 0.0019 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0097 | 0.0011 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0097 | 0.0015 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0097 | 0.0021 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.97 | 0.025 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 38.4 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 28.8 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10,S09 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/13/16 01:01 | HKS | GC-17 | 19.481 | BZH1159 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-44 | **Client Sample Name:** SB18-00, 8/3/2016 12:41:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **12** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **13** | **mg/kg** | **5.0** | **0.56** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 14:24 | JCC | PE-OP3 | 1.869 | BZH0819 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-45 | **Client Sample Name:** SB18-12, 8/3/2016 12:44:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **5.2** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/01/16 | 09/06/16 11:34 | JCC | PE-OP3 | 4.808 | BZI0155 |

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5001 Airport Plaza Drive, Suite 260
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**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621628-47 | **Client Sample Name:** SB19-00, 8/3/2016 11:42:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0050 | 0.00055 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0050 | 0.00064 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0050 | 0.00071 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0050 | 0.00059 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0050 | 0.00034 | EPA-8081A | 4.0 | A10 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.50 | 0.015 | EPA-8081A | 2.5 | A10 | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0050 | 0.00085 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0050 | 0.00083 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0050 | 0.00078 | EPA-8081A | 1.0 | A10 | 1 |
| Dieldrin | ND | mg/kg | 0.0050 | 0.00070 | EPA-8081A | 8.0 | A10 | 1 |
| Endosulfan I | ND | mg/kg | 0.0050 | 0.00087 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0050 | 0.0011 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0050 | 0.00099 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0050 | 0.00087 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0050 | 0.00097 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0050 | 0.00057 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0050 | 0.00078 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0050 | 0.0011 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.50 | 0.013 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 76.2 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 54.6 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/13/16 01:15 | HKS | GC-17 | 10.033 | BZH1159 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-47 | **Client Sample Name:** SB19-00, 8/3/2016 11:42:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **15** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **5.5** | **mg/kg** | **5.0** | **0.56** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 14:26 | JCC | PE-OP3 | 1.905 | BZH0819 |

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**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-48 | **Client Sample Name:** SB19-12, 8/3/2016 11:46:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **7.5** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/01/16 | 09/06/16 11:35 | JCC | PE-OP3 | 4.673 | BZI0155 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621628-50 | **Client Sample Name:** SB20-00, 8/3/2016 11:26:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.079 | 0.0087 | EPA-8081A | 1.4 | A10 | 1 |
| **alpha-BHC** | **0.023** | **mg/kg** | **0.079** | **0.010** | **EPA-8081A** | | **J,A10** | 1 |
| beta-BHC | ND | mg/kg | 0.079 | 0.011 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.079 | 0.0093 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.079 | 0.0054 | EPA-8081A | 4.0 | A10 | 1 |
| Chlordane (Technical) | ND | mg/kg | 7.9 | 0.24 | EPA-8081A | 2.5 | A10 | 1 |
| 4,4'-DDD | ND | mg/kg | 0.079 | 0.013 | EPA-8081A | 1.0 | A10 | 1 |
| **4,4'-DDE** | **0.015** | **mg/kg** | **0.079** | **0.013** | **EPA-8081A** | 1.0 | **J,A10** | 1 |
| 4,4'-DDT | ND | mg/kg | 0.079 | 0.012 | EPA-8081A | 1.0 | A10 | 1 |
| Dieldrin | ND | mg/kg | 0.079 | 0.011 | EPA-8081A | 8.0 | A10 | 1 |
| Endosulfan I | ND | mg/kg | 0.079 | 0.014 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.079 | 0.017 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.079 | 0.016 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.079 | 0.014 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.079 | 0.015 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.079 | 0.0090 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.079 | 0.012 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.079 | 0.017 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 7.9 | 0.21 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 73.4 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 54.3 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/13/16 01:30 | HKS | GC-17 | 157.89 | BZH1159 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# PCB Analysis (EPA Method 8082)

**BCL Sample ID:** 1621628-50 | **Client Sample Name:** SB20-00, 8/3/2016 11:26:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | mg/kg | 0.16 | 0.062 | EPA-8082 | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 0.16 | 0.11 | EPA-8082 | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 0.16 | 0.12 | EPA-8082 | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 0.16 | 0.066 | EPA-8082 | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 0.16 | 0.11 | EPA-8082 | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 0.16 | 0.051 | EPA-8082 | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 0.16 | 0.046 | EPA-8082 | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 0.16 | 0.079 | EPA-8082 | 50 | | 1 |
| Decachlorobiphenyl (Surrogate) | 78.3 | % | 40 - 120 (LCL - UCL) | | EPA-8082 | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8082 | 08/10/16 | 08/11/16 13:33 | HKS | GC-15 | 15.789 | BZH1085 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-50 | **Client Sample Name:** SB20-00, 8/3/2016 11:26:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **8.7** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **23** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/09/16 13:57 | JCC | PE-OP3 | 0.926 | BZH0819 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621628-53 | **Client Sample Name:** SB21-00, 8/1/2016 1:10:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0050 | 0.00055 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0050 | 0.00064 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0050 | 0.00071 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0050 | 0.00059 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0050 | 0.00034 | EPA-8081A | 4.0 | A10 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.50 | 0.015 | EPA-8081A | 2.5 | A10 | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0050 | 0.00085 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0050 | 0.00083 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0050 | 0.00078 | EPA-8081A | 1.0 | A10 | 1 |
| Dieldrin | ND | mg/kg | 0.0050 | 0.00070 | EPA-8081A | 8.0 | A10 | 1 |
| Endosulfan I | ND | mg/kg | 0.0050 | 0.00087 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0050 | 0.0011 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0050 | 0.00099 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0050 | 0.00087 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0050 | 0.00097 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0050 | 0.00057 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0050 | 0.00078 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0050 | 0.0011 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.50 | 0.013 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 73.7 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 65.5 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/12/16 05:16 | HKS | GC-17 | 10.101 | BZH1163 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621628-53 | **Client Sample Name:** SB21-00, 8/1/2016 1:10:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **9.3** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **9.4** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/09/16 14:07 | JCC | PE-OP3 | 0.980 | BZH0821 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1159** | | | | | | |
| Aldrin | BZH1159-BLK1 | ND | mg/kg | 0.00050 | 0.000055 | |
| alpha-BHC | BZH1159-BLK1 | ND | mg/kg | 0.00050 | 0.000064 | |
| beta-BHC | BZH1159-BLK1 | ND | mg/kg | 0.00050 | 0.000071 | |
| delta-BHC | BZH1159-BLK1 | ND | mg/kg | 0.00050 | 0.000059 | |
| gamma-BHC (Lindane) | BZH1159-BLK1 | ND | mg/kg | 0.00050 | 0.000034 | |
| Chlordane (Technical) | BZH1159-BLK1 | ND | mg/kg | 0.050 | 0.0015 | |
| 4,4'-DDD | BZH1159-BLK1 | ND | mg/kg | 0.00050 | 0.000085 | |
| 4,4'-DDE | BZH1159-BLK1 | ND | mg/kg | 0.00050 | 0.000083 | |
| 4,4'-DDT | BZH1159-BLK1 | ND | mg/kg | 0.00050 | 0.000078 | |
| Dieldrin | BZH1159-BLK1 | ND | mg/kg | 0.00050 | 0.000070 | |
| Endosulfan I | BZH1159-BLK1 | ND | mg/kg | 0.00050 | 0.000087 | |
| Endosulfan II | BZH1159-BLK1 | ND | mg/kg | 0.00050 | 0.00011 | |
| Endosulfan sulfate | BZH1159-BLK1 | ND | mg/kg | 0.00050 | 0.000099 | |
| Endrin | BZH1159-BLK1 | ND | mg/kg | 0.00050 | 0.000087 | |
| Endrin aldehyde | BZH1159-BLK1 | ND | mg/kg | 0.00050 | 0.000097 | |
| Heptachlor | BZH1159-BLK1 | ND | mg/kg | 0.00050 | 0.000057 | |
| Heptachlor epoxide | BZH1159-BLK1 | ND | mg/kg | 0.00050 | 0.000078 | |
| Methoxychlor | BZH1159-BLK1 | ND | mg/kg | 0.00050 | 0.00011 | |
| Toxaphene | BZH1159-BLK1 | ND | mg/kg | 0.050 | 0.0013 | |
| **TCMX (Surrogate)** | **BZH1159-BLK1** | **74.9** | % | **20 - 130 (LCL - UCL)** | | |
| **Decachlorobiphenyl (Surrogate)** | **BZH1159-BLK1** | **83.3** | % | **40 - 130 (LCL - UCL)** | | |
| **QC Batch ID: BZH1163** | | | | | | |
| Aldrin | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000055 | |
| alpha-BHC | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000064 | |
| beta-BHC | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000071 | |
| delta-BHC | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000059 | |
| gamma-BHC (Lindane) | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000034 | |
| Chlordane (Technical) | BZH1163-BLK1 | ND | mg/kg | 0.050 | 0.0015 | |
| 4,4'-DDD | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000085 | |
| 4,4'-DDE | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000083 | |
| 4,4'-DDT | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000078 | |
| Dieldrin | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000070 | |
| Endosulfan I | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000087 | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1163** | | | | | | |
| Endosulfan II | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.00011 | |
| Endosulfan sulfate | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000099 | |
| Endrin | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000087 | |
| Endrin aldehyde | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000097 | |
| Heptachlor | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000057 | |
| Heptachlor epoxide | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000078 | |
| Methoxychlor | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.00011 | |
| Toxaphene | BZH1163-BLK1 | ND | mg/kg | 0.050 | 0.0013 | |
| **TCMX (Surrogate)** | **BZH1163-BLK1** | **82.1** | % | **20 - 130 (LCL - UCL)** | | |
| **Decachlorobiphenyl (Surrogate)** | **BZH1163-BLK1** | **59.7** | % | **40 - 130 (LCL - UCL)** | | |

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**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1159** | | | | | | | | | | |
| Aldrin | BZH1159-BS1 | LCS | 0.0043220 | 0.0049342 | mg/kg | 87.6 | | 70 - 130 | | |
| gamma-BHC (Lindane) | BZH1159-BS1 | LCS | 0.0043128 | 0.0049342 | mg/kg | 87.4 | | 60 - 140 | | |
| 4,4'-DDT | BZH1159-BS1 | LCS | 0.0039803 | 0.0049342 | mg/kg | 80.7 | | 60 - 140 | | |
| Dieldrin | BZH1159-BS1 | LCS | 0.0046490 | 0.0049342 | mg/kg | 94.2 | | 70 - 130 | | |
| Endrin | BZH1159-BS1 | LCS | 0.0046480 | 0.0049342 | mg/kg | 94.2 | | 60 - 140 | | |
| Heptachlor | BZH1159-BS1 | LCS | 0.0041230 | 0.0049342 | mg/kg | 83.6 | | 60 - 140 | | |
| TCMX (Surrogate) | BZH1159-BS1 | LCS | 0.0085092 | 0.0098684 | mg/kg | 86.2 | | 20 - 130 | | |
| Decachlorobiphenyl (Surrogate) | BZH1159-BS1 | LCS | 0.017328 | 0.019737 | mg/kg | 87.8 | | 40 - 130 | | |
| **QC Batch ID: BZH1163** | | | | | | | | | | |
| Aldrin | BZH1163-BS1 | LCS | 0.0052031 | 0.0050847 | mg/kg | 102 | | 70 - 130 | | |
| gamma-BHC (Lindane) | BZH1163-BS1 | LCS | 0.0051997 | 0.0050847 | mg/kg | 102 | | 60 - 140 | | |
| 4,4'-DDT | BZH1163-BS1 | LCS | 0.0052251 | 0.0050847 | mg/kg | 103 | | 60 - 140 | | |
| Dieldrin | BZH1163-BS1 | LCS | 0.0057444 | 0.0050847 | mg/kg | 113 | | 70 - 130 | | |
| Endrin | BZH1163-BS1 | LCS | 0.0058603 | 0.0050847 | mg/kg | 115 | | 60 - 140 | | |
| Heptachlor | BZH1163-BS1 | LCS | 0.0049976 | 0.0050847 | mg/kg | 98.3 | | 60 - 140 | | |
| TCMX (Surrogate) | BZH1163-BS1 | LCS | 0.0099081 | 0.010169 | mg/kg | 97.4 | | 20 - 130 | | |
| Decachlorobiphenyl (Surrogate) | BZH1163-BS1 | LCS | 0.016056 | 0.020339 | mg/kg | 78.9 | | 40 - 130 | | |

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**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1159** | Used client sample: N | | | | | | | | | | |
| Aldrin | MS | 1616196-94 | ND | 0.0042485 | 0.0049505 | mg/kg | | 85.8 | | 50 - 140 | |
| | MSD | 1616196-94 | ND | 0.0040934 | 0.0049669 | mg/kg | 3.7 | 82.4 | 30 | 50 - 140 | |
| gamma-BHC (Lindane) | MS | 1616196-94 | ND | 0.0044416 | 0.0049505 | mg/kg | | 89.7 | | 50 - 140 | |
| | MSD | 1616196-94 | ND | 0.0042444 | 0.0049669 | mg/kg | 4.5 | 85.5 | 30 | 50 - 140 | |
| 4,4'-DDT | MS | 1616196-94 | ND | 0.0038974 | 0.0049505 | mg/kg | | 78.7 | | 50 - 140 | |
| | MSD | 1616196-94 | ND | 0.0036705 | 0.0049669 | mg/kg | 6.0 | 73.9 | 30 | 50 - 140 | |
| Dieldrin | MS | 1616196-94 | ND | 0.0044416 | 0.0049505 | mg/kg | | 89.7 | | 40 - 140 | |
| | MSD | 1616196-94 | ND | 0.0041179 | 0.0049669 | mg/kg | 7.6 | 82.9 | 30 | 40 - 140 | |
| Endrin | MS | 1616196-94 | ND | 0.0045409 | 0.0049505 | mg/kg | | 91.7 | | 50 - 150 | |
| | MSD | 1616196-94 | ND | 0.0041606 | 0.0049669 | mg/kg | 8.7 | 83.8 | 30 | 50 - 150 | |
| Heptachlor | MS | 1616196-94 | ND | 0.0041528 | 0.0049505 | mg/kg | | 83.9 | | 60 - 140 | |
| | MSD | 1616196-94 | ND | 0.0039295 | 0.0049669 | mg/kg | 5.5 | 79.1 | 30 | 60 - 140 | |
| TCMX (Surrogate) | MS | 1616196-94 | ND | 0.0080475 | 0.0099010 | mg/kg | | 81.3 | | 20 - 130 | |
| | MSD | 1616196-94 | ND | 0.0080917 | 0.0099338 | mg/kg | 0.5 | 81.5 | | 20 - 130 | |
| Decachlorobiphenyl (Surrogate) | MS | 1616196-94 | ND | 0.017001 | 0.019802 | mg/kg | | 85.9 | | 40 - 130 | |
| | MSD | 1616196-94 | ND | 0.016305 | 0.019868 | mg/kg | 4.2 | 82.1 | | 40 - 130 | |
| **QC Batch ID: BZH1163** | Used client sample: N | | | | | | | | | | |
| Aldrin | MS | 1616196-97 | ND | 0.0055010 | 0.0050505 | mg/kg | | 109 | | 50 - 140 | |
| | MSD | 1616196-97 | ND | 0.0054963 | 0.0050167 | mg/kg | 0.1 | 110 | 30 | 50 - 140 | |
| gamma-BHC (Lindane) | MS | 1616196-97 | ND | 0.0054205 | 0.0050505 | mg/kg | | 107 | | 50 - 140 | |
| | MSD | 1616196-97 | ND | 0.0053301 | 0.0050167 | mg/kg | 1.7 | 106 | 30 | 50 - 140 | |
| 4,4'-DDT | MS | 1616196-97 | ND | 0.0042822 | 0.0050505 | mg/kg | | 84.8 | | 50 - 140 | |
| | MSD | 1616196-97 | ND | 0.0051559 | 0.0050167 | mg/kg | 18.5 | 103 | 30 | 50 - 140 | |
| Dieldrin | MS | 1616196-97 | ND | 0.0048360 | 0.0050505 | mg/kg | | 95.8 | | 40 - 140 | |
| | MSD | 1616196-97 | ND | 0.0047946 | 0.0050167 | mg/kg | 0.9 | 95.6 | 30 | 40 - 140 | |
| Endrin | MS | 1616196-97 | ND | 0.0049037 | 0.0050505 | mg/kg | | 97.1 | | 50 - 150 | |
| | MSD | 1616196-97 | ND | 0.0049987 | 0.0050167 | mg/kg | 1.9 | 99.6 | 30 | 50 - 150 | |
| Heptachlor | MS | 1616196-97 | ND | 0.0053572 | 0.0050505 | mg/kg | | 106 | | 60 - 140 | |
| | MSD | 1616196-97 | ND | 0.0052759 | 0.0050167 | mg/kg | 1.5 | 105 | 30 | 60 - 140 | |
| TCMX (Surrogate) | MS | 1616196-97 | ND | 0.0082145 | 0.010101 | mg/kg | | 81.3 | | 20 - 130 | |
| | MSD | 1616196-97 | ND | 0.0083254 | 0.010033 | mg/kg | 1.3 | 83.0 | | 20 - 130 | |
| Decachlorobiphenyl (Surrogate) | MS | 1616196-97 | ND | 0.017217 | 0.020202 | mg/kg | | 85.2 | | 40 - 130 | |
| | MSD | 1616196-97 | ND | 0.017654 | 0.020067 | mg/kg | 2.5 | 88.0 | | 40 - 130 | |

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E2 Managetech
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**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# PCB Analysis (EPA Method 8082)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1085** | | | | | | |
| PCB-1016 | BZH1085-BLK1 | ND | mg/kg | 0.010 | 0.0039 | |
| PCB-1221 | BZH1085-BLK1 | ND | mg/kg | 0.010 | 0.0072 | |
| PCB-1232 | BZH1085-BLK1 | ND | mg/kg | 0.010 | 0.0074 | |
| PCB-1242 | BZH1085-BLK1 | ND | mg/kg | 0.010 | 0.0042 | |
| PCB-1248 | BZH1085-BLK1 | ND | mg/kg | 0.010 | 0.0070 | |
| PCB-1254 | BZH1085-BLK1 | ND | mg/kg | 0.010 | 0.0032 | |
| PCB-1260 | BZH1085-BLK1 | ND | mg/kg | 0.010 | 0.0029 | |
| Total PCB's (Summation) | BZH1085-BLK1 | ND | mg/kg | 0.010 | 0.0050 | |
| **Decachlorobiphenyl (Surrogate)** | **BZH1085-BLK1** | **75.0** | % | **40 - 120 (LCL - UCL)** | | |

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Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# PCB Analysis (EPA Method 8082)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1085** | | | | | | | | | | |
| PCB-1016 | BZH1085-BS1 | LCS | 0.091333 | 0.083333 | mg/kg | 110 | | 60 - 120 | | |
| PCB-1260 | BZH1085-BS1 | LCS | 0.091333 | 0.083333 | mg/kg | 110 | | 60 - 120 | | |
| Decachlorobiphenyl (Surrogate) | BZH1085-BS1 | LCS | 0.017000 | 0.020000 | mg/kg | 85.0 | | 40 - 120 | | |

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Project Number: 16-201-005
Project Manager: Travis Stravasnik

# PCB Analysis (EPA Method 8082)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1085** | Used client sample: N | | | | | | | | | | |
| PCB-1016 | MS | 1616196-93 | ND | 0.090169 | 0.084746 | mg/kg | | 106 | | 60 - 120 | |
| | MSD | 1616196-93 | ND | 0.091060 | 0.082781 | mg/kg | 1.0 | 110 | 30 | 60 - 120 | |
| PCB-1260 | MS | 1616196-93 | ND | 0.095593 | 0.084746 | mg/kg | | 113 | | 60 - 120 | |
| | MSD | 1616196-93 | ND | 0.094040 | 0.082781 | mg/kg | 1.6 | 114 | 30 | 60 - 120 | |
| Decachlorobiphenyl (Surrogate) | MS | 1616196-93 | ND | 0.017627 | 0.020339 | mg/kg | | 86.7 | | 40 - 120 | |
| | MSD | 1616196-93 | ND | 0.017881 | 0.019868 | mg/kg | 1.4 | 90.0 | | 40 - 120 | |

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**Reported:** 10/13/2016 14:42
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Project Number: 16-201-005
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# Total Concentrations (TTLC)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0819** | | | | | | |
| Arsenic | BZH0819-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| Lead | BZH0819-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| **QC Batch ID: BZH0821** | | | | | | |
| Arsenic | BZH0821-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| Lead | BZH0821-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| **QC Batch ID: BZI0155** | | | | | | |
| Arsenic | BZI0155-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| Lead | BZI0155-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| **QC Batch ID: BZJ0692** | | | | | | |
| Arsenic | BZJ0692-BLK1 | ND | mg/kg | 1.0 | 0.40 | |

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Project Number: 16-201-005
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# Total Concentrations (TTLC)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0819** | | | | | | | | | | |
| Arsenic | BZH0819-BS1 | LCS | 11.044 | 10.000 | mg/kg | 110 | | 75 - 125 | | |
| Lead | BZH0819-BS1 | LCS | 104.74 | 100.00 | mg/kg | 105 | | 75 - 125 | | |
| **QC Batch ID: BZH0821** | | | | | | | | | | |
| Arsenic | BZH0821-BS1 | LCS | 10.512 | 10.000 | mg/kg | 105 | | 75 - 125 | | |
| Lead | BZH0821-BS1 | LCS | 102.54 | 100.00 | mg/kg | 103 | | 75 - 125 | | |
| **QC Batch ID: BZI0155** | | | | | | | | | | |
| Arsenic | BZI0155-BS1 | LCS | 9.2939 | 10.000 | mg/kg | 92.9 | | 75 - 125 | | |
| Lead | BZI0155-BS1 | LCS | 98.106 | 100.00 | mg/kg | 98.1 | | 75 - 125 | | |
| **QC Batch ID: BZJ0692** | | | | | | | | | | |
| Arsenic | BZJ0692-BS1 | LCS | 9.3750 | 10.000 | mg/kg | 93.7 | | 75 - 125 | | |

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Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0819** | Used client sample: Y - Description: SB1-00, 08/01/2016 15:54 | | | | | | | | | | |
| Arsenic | DUP | 1621628-01 | 14.066 | 15.433 | | mg/kg | 9.3 | | 20 | | |
| | MS | 1621628-01 | 14.066 | 22.673 | 10.000 | mg/kg | | 86.1 | | 75 - 125 | |
| | MSD | 1621628-01 | 14.066 | 25.252 | 10.000 | mg/kg | 10.8 | 112 | 20 | 75 - 125 | |
| Lead | DUP | 1621628-01 | 10.062 | 11.757 | | mg/kg | 15.5 | | 20 | | |
| | MS | 1621628-01 | 10.062 | 98.041 | 100.00 | mg/kg | | 88.0 | | 75 - 125 | |
| | MSD | 1621628-01 | 10.062 | 96.285 | 100.00 | mg/kg | 1.8 | 86.2 | 20 | 75 - 125 | |
| **QC Batch ID: BZH0821** | Used client sample: Y - Description: SB42-00, 08/02/2016 09:17 | | | | | | | | | | |
| Arsenic | DUP | 1621629-59 | 3.9172 | 4.1006 | | mg/kg | 4.6 | | 20 | | |
| | MS | 1621629-59 | 3.9172 | 13.201 | 10.000 | mg/kg | | 92.8 | | 75 - 125 | |
| | MSD | 1621629-59 | 3.9172 | 13.189 | 10.000 | mg/kg | 0.1 | 92.7 | 20 | 75 - 125 | |
| Lead | DUP | 1621629-59 | 3.9637 | 4.3101 | | mg/kg | 8.4 | | 20 | | |
| | MS | 1621629-59 | 3.9637 | 91.799 | 100.00 | mg/kg | | 87.8 | | 75 - 125 | |
| | MSD | 1621629-59 | 3.9637 | 93.773 | 100.00 | mg/kg | 2.1 | 89.8 | 20 | 75 - 125 | |
| **QC Batch ID: BZI0155** | Used client sample: Y - Description: SB1-12, 08/01/2016 15:56 | | | | | | | | | | |
| **Arsenic** | DUP | **1621628-02** | **28.330** | **15.050** | | **mg/kg** | **61.2** | | **20** | | **Q01** |
| | MS | **1621628-02** | **28.330** | **33.046** | **10.000** | **mg/kg** | | **47.2** | | **75 - 125** | **Q03** |
| | MSD | **1621628-02** | **28.330** | **29.778** | **10.000** | **mg/kg** | **10.4** | **14.5** | **20** | **75 - 125** | **Q03** |
| Lead | DUP | 1621628-02 | 4.2873 | 4.0321 | | mg/kg | 6.1 | | 20 | | J |
| | MS | 1621628-02 | 4.2873 | 93.488 | 100.00 | mg/kg | | 89.2 | | 75 - 125 | |
| | MSD | 1621628-02 | 4.2873 | 93.660 | 100.00 | mg/kg | 0.2 | 89.4 | 20 | 75 - 125 | |
| **QC Batch ID: BZJ0692** | Used client sample: Y - Description: SB11-24, 08/03/2016 09:26 | | | | | | | | | | |
| **Arsenic** | DUP | **1621628-29** | **13.082** | **13.494** | | **mg/kg** | **3.1** | | **20** | | |
| | MS | **1621628-29** | **13.082** | **18.455** | **10.000** | **mg/kg** | | **53.7** | | **75 - 125** | **Q03** |
| | MSD | **1621628-29** | **13.082** | **18.267** | **10.000** | **mg/kg** | **1.0** | **51.9** | **20** | **75 - 125** | **Q03** |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 10/13/2016 14:42
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

## Notes And Definitions

| | |
|---|---|
| J | Estimated Value (CLP Flag) |
| MDL | Method Detection Limit |
| ND | Analyte Not Detected |
| PQL | Practical Quantitation Limit |
| A07 | Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference. |
| A10 | Detection and quantitation limits were raised due to matrix interference. |
| Q01 | Sample precision is not within the control limits. |
| Q03 | Matrix spike recovery(s) is(are) not within the control limits. |
| S09 | The surrogate recovery on the sample for this compound was not within the control limits. |

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Date of Report: 11/18/2016

Travis Stravasnik

E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

| | |
|---|---|
| Client Project: | 16-201-005 |
| BCL Project: | LAUSD - San Pedro HS |
| BCL Work Order: | 1621629 |
| Invoice ID: | B243980, B245310, B249070, B252369 |

Enclosed are the results of analyses for samples received by the laboratory on 8/4/2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature



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**Chain of Custody and Cooler Receipt Form for 1621629 Page 1 of 18**

16-21629

**BC LABORATORIES, INC.** 4100 Atlas Court, Bakersfield, CA 93308 Phone (661) 327-4911 FAX (661) 327-1918

**CHAIN OF CUSTODY**

**Project Information**

**Name:** E2Managetech, Inc.
**Phone:** office: 562-740-1060

**Address:** 5001 Airport Plaza Dr, # 260, Long Beach, CA 90815
**Project:** LAUSD - San Pedro HS

**Attn:** Travis Stravasnik (tstravasnik@e2mt.com)
**Project #:** 16-201-005

**Sampler(s):** Kevin Lin; Gabriela Valenzuela
**PO#**

**Comments:** Normal Turnaround Time; Surface samples (-00) are to be tested initially; deeper samples (-12 and -24) on hold

| Lab# | Sample ID | | # of Containers | Date | Time | Sample Matrix: Soil | Water | Lead - EPA Method 6010B | Arsenic - EPA Method 6010B | Organochlorine Pesticides - EPA Method 8081 | Polychlorinated Biphenyls - EPA Method 8082 | TPH (gas, diesel, oil) - EPA Method 8015 | VOCs - EPA Method 8260B | CAM 22/T22 Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -1 | SB22-00 | ✓ | 1 | 8/1/2016 | 1214 | X | | X | X | X | | | | |
| -2 | SB22-12 | ✓ | 1 | 8/1/2016 | 1221 | X | | X | X | X | | | | |
| -3 | SB22-24 | ✓ | 1 | 8/1/2016 | 1234 | X | | X | X | X | | | | |
| -4 | SB23-00 | ✓ | 1 | 8/1/2016 | 1135 | X | | X | X | X | | | | |
| -5 | SB23-12 | ✓ | 1 | 8/1/2016 | 1140 | X | | X | X | X | | | | |
| -6 | SB23-24 | ✓ | 1 | 8/1/2016 | 1145 | X | | X | X | X | | | | |
| -7 | SB24-00 | ✓ | 1 | 8/1/2016 | 1102 | X | | X | X | X | | | | |
| -8 | SB24-12 | ✓ | 1 | 8/1/2016 | 1107 | X | | X | X | X | | | | |
| -9 | SB24-24 | ✓ | 1 | 8/1/2016 | 1111 | X | | X | X | X | | | | |
| -10 | SB25-00 | ✓ | 1 | 8/2/2016 | 1450 | X | | X | X | X | | | | |
| -11 | SB25-12 | ✓ | 1 | 8/2/2016 | 1454 | X | | X | X | X | | | | |
| -12 | SB25-24 | ✓ | 1 | 8/2/2016 | 1500 | X | | X | X | X | | | | |

CHK BY DISTRIBUTION
SUB-OUT

Relinquished By: Received By: Date and Time: 8/4/16 1440
Relinquished By: Received By: Date and Time: 8/4/16 1700
Relinquished By: Received By: Date and Time: 8-4-16 1900

**Chain of Custody and Cooler Receipt Form for 1621629 Page 2 of 18**

16-21629

**BC LABORATORIES, INC.** 4100 Atlas Court, Bakersfield, CA 93308 Phone (661) 327-4911 FAX (661) 327-1918

**CHAIN OF CUSTODY**

**Project Information**

**Name:** E2Managetech, Inc.

**Phone:** office: 562-740-1060

**Address:** 5001 Airport Plaza Dr, # 260, Long Beach, CA 90815

**Project:** LAUSD - San Pedro HS

**Attn:** Travis Stravasnik (tstravasnik@e2mt.com)

**Project #:** 16-201-005

**Sampler(s):** Kevin Lin; Gabriela Valenzuela

**PO#**

**Comments:** Normal Turnaround Time; Surface samples (-00) are to be tested initially; deeper samples (-12 and -24) on hold

| Lab# | Sample ID | | # of Containers | Sample Matrix: Soil | Sample Matrix: Water | Analysis Requested: Lead - EPA Method 6010B | Arsenic - EPA Method 6010B | Organochlorine Pesticides - EPA Method 8081 | Polychlorinated Biphenyls - EPA Method 8082 | TPH (gas, diesel, oil) - EPA Method 8015 | VOCs - EPA Method 8260B | CAM 22/T22 Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -13 | SB26-00 | 8/2/2016 1521 | 1 | X | | X | X | X | | | | |
| -14 | SB26-12 | 8/2/2016 1527 | 1 | X | | X | X | X | | | | |
| -15 | SB26-24 | 8/2/2016 1529 | 1 | X | | X | X | X | | | | |
| -16 | SB27-00 | 8/2/2016 1515 | 1 | X | | X | X | X | | | | |
| -17 | SB27-12 | 8/2/2016 1517 | 1 | X | | X | X | X | | | | |
| -18 | SB27-24 | 8/2/2016 1518 | 1 | X | | X | X | X | | | | |
| -19 | SB28-00 | 8/2/2016 1420 | 1 | X | | X | X | X | | | | |
| -20 | SB28-12 | 8/2/2016 1425 | 1 | X | | X | X | X | | | | |
| -21 | SB28-24 | 8/2/2016 1431 | 1 | X | | X | X | X | | | | |
| -22 | SB29-00 | 8/1/2016 1345 | 1 | X | | X | X | X | | | | |
| -23 | SB29-12 | 8/1/2016 1350 | 1 | X | | X | X | X | | | | |
| -24 | SB29-24 | 8/1/2016 1400 | 1 | X | | X | X | X | | | | |

Relinquished By: Received By: Date and Time: 8/4/16 1440

Relinquished By: Received By: Date and Time: 8/4/16 1700

Relinquished By: 8-4-16 1900 Received By: Date and Time: 8/4/16 1900

**Chain of Custody and Cooler Receipt Form for 1621629 Page 3 of 18**

16-21629

**BC LABORATORIES, INC.** 4100 Atlas Court, Bakersfield, CA 93308 Phone (661) 327-4911 FAX (661) 327-1918

**CHAIN OF CUSTODY**

**Project Information**

**Name:** E2Managetech, Inc.
**Phone:** office: 562-740-1060

**Address:** 5001 Airport Plaza Dr, # 260, Long Beach, CA 90815
**Project:** LAUSD - San Pedro HS

**Attn:** Travis Stravasnik (tstravasnik@e2mt.com)
**Project #:** 16-201-005

**Sampler(s):** Kevin Lin; Gabriela Valenzuela
**PO#**

**Comments:** Normal Turnaround Time; Surface samples (-00) are to be tested initially; deeper samples (-12 and -24) on hold

| Lab# | Sample ID | | # of Containers | Date | Time | Sample Matrix: Soil | Water | Lead - EPA Method 6010B | Arsenic - EPA Method 6010B | Organochlorine Pesticides - EPA Method 8081 | Polychlorinated Biphenyls - EPA Method 8082 | TPH (gas, diesel, oil) - EPA Method 8015 | VOCs - EPA Method 8260B | CAM 22/T22 Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -25 | SB30-00 | ✓ | 1 | 8/2/2016 | 1404 | X | | X | X | X | X | | | |
| -26 | SB30-12 | ✓ | 1 | 8/2/2016 | 1408 | X | | X | X | X | X | | | |
| -27 | SB30-24 | ✓ | 1 | 8/2/2016 | 1412 | X | | X | X | X | X | | | |
| -28 | SB31-00 | ✓ | 1 | 8/2/2016 | 1425 | X | | X | X | X | | | | |
| -29 | SB31-12 | ✓ | 1 | 8/2/2016 | 1428 | X | | X | X | X | | | | |
| -30 | SB31-24 | ✓ | 1 | 8/2/2016 | 1431 | X | | X | X | X | | | | |
| -31 | SB32-00 | ✓ | 1 | 8/1/2016 | 0925 | X | | X | X | X | | | | |
| -32 | SB32-12 | ✓ | 1 | 8/1/2016 | 0949 | X | | X | X | X | | | | |
| -33 | SB32-24 | ✓ | 1 | 8/1/2016 | 0952 | X | | X | X | X | | | | |
| -34 | SB33-00 | ✓ | 1 | 8/2/2016 | 0739 | X | | X | X | X | | | | |

Relinquished By: Received By: Date and Time: 8/4/16 1440

Relinquished By: 8/4/16 Received By: Date and Time: 1700

Relinquished By: Received By: Date and Time: 8/4/16 1900

**Chain of Custody and Cooler Receipt Form for 1621629 Page 4 of 18**

16-21629

**BC LABORATORIES, INC.** 4100 Atlas Court, Bakersfield, CA 93308 Phone (661) 327-4911 FAX (661) 327-1918

**CHAIN OF CUSTODY**

**Project Information**

**Name:** E2Managetech, Inc.
**Phone:** office: 562-740-1060

**Address:** 5001 Airport Plaza Dr, # 260, Long Beach, CA 90815
**Project:** LAUSD - San Pedro HS

**Attn:** Travis Stravasnik (tstravasnik@e2mt.com)
**Project #:** 16-201-005

**Sampler(s):** Kevin Lin; Gabriela Valenzuela
**PO#**

**Comments:** Normal Turnaround Time; Surface samples (-00) are to be tested initially; deeper samples (-12 and -24) on hold

| Lab# | Sample ID | # of Containers | Date | Time | Sample Matrix: Soil | Water | Analysis Requested: Lead - EPA Method 6010B | Arsenic - EPA Method 6010B | Organochlorine Pesticides - EPA Method 8081 | Polychlorinated Biphenyls - EPA Method 8082 | TPH (gas, diesel, oil) - EPA Method 8015 | VOCs - EPA Method 8260B | CAM 22/17 Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -35 | SB34-00 | 1 | 8/1/2016 | 0927 | X | | X | X | X | | | | |
| -36 | SB34-12 | 1 | 8/1/2016 | 0937 | X | | X | X | X | | | | |
| -37 | SB34-24 | 1 | 8/1/2016 | 0940 | X | | X | X | X | | | | |
| -38 | SB35-00 | 1 | 8/1/2016 | 0853 | X | | X | X | X | | | | |
| -39 | SB35-12 | 1 | 8/1/2016 | 0857 | X | | X | X | X | | | | |
| -40 | SB35-24 | 1 | 8/1/2016 | 0900 | X | | X | X | X | | | | |
| -41 | SB36-00 | 1 | 8/1/2016 | 0846 | X | | X | X | X | | | | |
| -42 | SB36-12 | 1 | 8/1/2016 | 0854 | X | | X | X | X | | | | |
| -43 | SB36-24 | 1 | 8/1/2016 | 0901 | X | | X | X | X | | | | |
| -44 | SB37-00 | 1 | 8/1/2016 | 1432 | X | | X | X | X | | | | |
| -45 | SB37-12 | 1 | 8/1/2016 | 1436 | X | | X | X | X | | | | |
| -46 | SB37-24 | 1 | 8/1/2016 | 1440 | X | | X | X | X | | | | |

Relinquished By: Received By: Date and Time: 8/4/16 1440

Relinquished By: Received By: Date and Time: 8/4/16 1700

Relinquished By: Received By: Date and Time: 8/4/16 1900

**Chain of Custody and Cooler Receipt Form for 1621629 Page 5 of 18**

16-21629

**BC LABORATORIES, INC.** 4100 Atlas Court, Bakersfield, CA 93308 Phone (661) 327-4911 FAX (661) 327-1918

**CHAIN OF CUSTODY**

**Project Information**

**Name:** E2Managetech, Inc. **Phone:** office: 562-740-1060

**Address:** 5001 Airport Plaza Dr, # 260, Long Beach, CA 90815 **Project:** LAUSD - San Pedro HS

**Attn:** Travis Stravasnik (tstravasnik@e2mt.com) **Project #:** 16-201-005

**Sampler(s):** Kevin Lin; Gabriela Valenzuela **PO#**

**Comments:** Normal Turnaround Time; Surface samples (-00) are to be tested initially; deeper samples (-12 and -24) on hold

| Lab# | Sample ID | | # of Containers | Date | Time | Sample Matrix: Soil | Water | Analysis Requested: Lead - EPA Method 6010B | Arsenic - EPA Method 6010B | Organochlorine Pesticides - EPA Method 8081 | Polychlorinated Biphenyls - EPA Method 8082 | TPH (gas, diesel, oil) - EPA Method 8015 | VOCs - EPA Method 8260B | CAM 22/17Z2 Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -47 | SB38-00 | ✓ | 1 | 8/2/2016 | 0800 | X | | X | X | X | | | | |
| -48 | SB38-12 | ✓ | 1 | 8/2/2016 | 0804 | X | | X | X | X | | | | |
| -49 | SB38-24 | ✓ | 1 | 8/2/2016 | 0807 | X | | X | X | X | | | | |
| -50 | SB39-00 | ✓ | 1 | 8/2/2016 | 0828 | X | | X | X | X | | | | |
| -51 | SB39-12 | ✓ | 1 | 8/2/2016 | 0833 | X | | X | X | X | | | | |
| -52 | SB39-24 | ✓ | 1 | 8/2/2016 | 0836 | X | | X | X | X | | | | |
| -53 | SB40-00 | ✓ | 1 | 8/2/2016 | 0720 | X | | X | X | X | X | | | |
| -54 | SB40-12 | ✓ | 1 | 8/2/2016 | 0723 | X | | X | X | X | X | | | |
| -55 | SB40-24 | ✓ | 1 | 8/2/2016 | 0725 | X | | X | X | X | X | | | |
| -56 | SB41-00 | ✓ | 1 | 8/2/2016 | 1034 | X | | X | X | X | | | | |
| -57 | SB41-12 | ✓ | 1 | 8/2/2016 | 1038 | X | | X | X | X | | | | |
| -58 | SB41-24 | ✓ | 1 | 8/2/2016 | 1041 | X | | X | X | X | | | | |

Relinquished By: Received By: Date and Time: 8/4/16 1440

Relinquished By: Received By: Date and Time: 8/4/16 1700

Relinquished By: Received By: Date and Time: 8/4/16 1900

**Chain of Custody and Cooler Receipt Form for 1621629 Page 6 of 18**

16-21629

| BC LABORATORIES, INC. | 4100 Atlas Court, Bakersfield, CA 93308 | Phone (661) 327-4911 FAX (661) 327-1918 | CHAIN OF CUSTODY |
|---|---|---|---|

**Project Information**

**Name:** E2Managetech, Inc.
**Phone:** office: 562-740-1060
**Address:** 5001 Airport Plaza Dr, # 260, Long Beach, CA 90815
**Project:** LAUSD - San Pedro HS
**Attn:** Travis Stravasnik (tstravasnik@e2mt.com)
**Project #:** 16-201-005
**Sampler(s):** Kevin Lin; Gabriela Valenzuela
**PO#**
**Comments:** Normal Turnaround Time; Surface samples (-00) are to be tested initially; deeper samples (-12 and -24) on hold

| Lab# | Sample ID | | # of Containers | Sample Matrix: Soil | Water | Lead - EPA Method 6010B | Arsenic - EPA Method 6010B | Organochlorine Pesticides - EPA Method 8081 | Polychlorinated Biphenyls - EPA Method 8082 | TPH (gas, diesel, oil) - EPA Method 8015 | VOCs - EPA Method 8260B | CAM 22/T22 Metals | Analysis Requested |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -59 | SB42-00 | 8/2/2016 | 0917 | 1 | | | | | | | | | |
| -60 | SB42-12 | 8/2/2016 | 0923 | 1 | | | | | | | | | |
| -61 | SB42-24 | 8/2/2016 | 0929 | 1 | | | | | | | | | |
| -62 | SB43-00 | 8/2/2016 | 0945 | 1 | | | | | | | | | |
| -63 | SB43-12 | 8/2/2016 | 0955 | 1 | | | | | | | | | |
| -64 | SB43-24 | 8/2/2016 | 1001 | 1 | | | | | | | | | |
| -65 | SB44-00 | 8/2/2016 | 1016 | 1 | | | | | | | | | |
| -66 | SB44-12 | 8/2/2016 | 1020 | 1 | | | | | | | | | |
| -67 | SB44-24 | 8/2/2016 | 1023 | 1 | | | | | | | | | |
| -68 | SB45-00 | 8/2/2016 | 0900 | 1 | | | | | | | | | |
| 69 | SB45-12 | 8/2/2016 | 0905 | 1 | | | | | | | | | |
| 70 | SB45-24 | 8/2/2016 | 0908 | 1 | | | | | | | | | |

Relinquished By: [signature] Received By: [signature] Date and Time: 8/4/16 1945
Relinquished By: [signature] 8/4/16 1900 Received By: [signature] Date and Time: 8/4/16 1700
Relinquished By: [signature] 8-4-16 1900 Received By: [signature] Date and Time: 8/4/16 1900

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16-21629

| BC LABORATORIES, INC. | 4100 Atlas Court, Bakersfield, CA 93308 Phone (661) 327-4911 FAX (661) 327-1918 | CHAIN OF CUSTODY |
|---|---|---|

| Project Information | |
|---|---|
| **Name:** E2Managetech, Inc. | **Phone:** office: 562-740-1060 |
| **Address:** 5001 Airport Plaza Dr, # 260, Long Beach, CA 90815 | **Project:** LAUSD - San Pedro HS |
| **Attn:** Travis Stravasnik (tstravasnik@e2mt.com) | **Project #:** 16-201-005 |
| **Sampler(s):** Kevin Lin; Gabriela Valenzuela | **PO#** |

**Comments:** Normal Turnaround Time; Surface samples (-00) are to be tested initially; deeper samples (-12 and -24) on hold

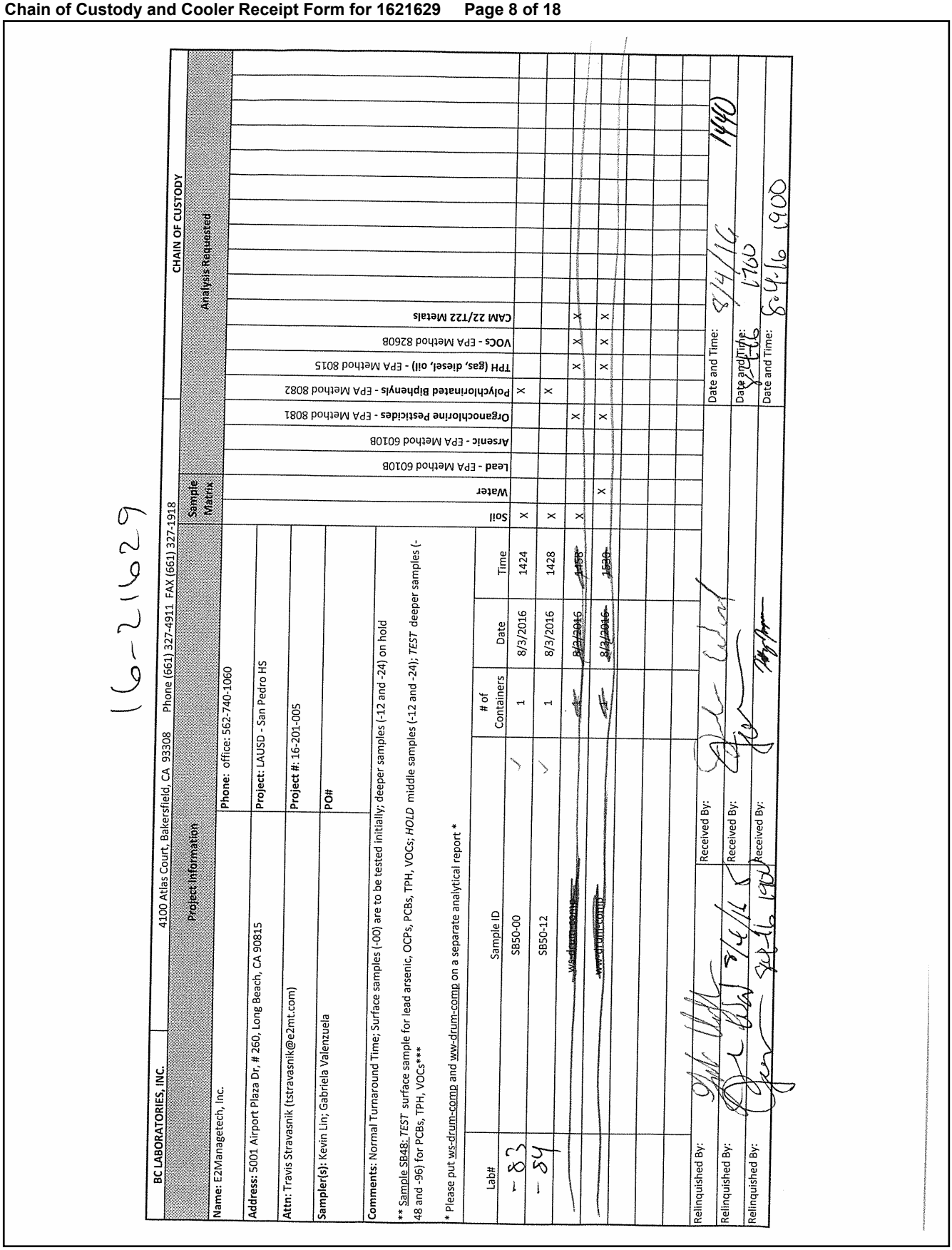
** Sample SB48: *TEST* surface sample for lead arsenic, OCPs, PCBs, TPH, VOCs; *HOLD* middle samples (-12 and -24); *TEST* deeper samples (-48 and -96) for PCBs, TPH, VOCs***

| Lab# | Sample ID | # of Containers | Date | Time | Sample Matrix: Soil | Sample Matrix: Water | Analysis Requested: Lead - EPA Method 6010B | Arsenic - EPA Method 6010B | Organochlorine Pesticides - EPA Method 8081 | Polychlorinated Biphenyls - EPA Method 8082 | TPH (gas, diesel, oil) - EPA Method 8015 | VOCs - EPA Method 8260B | CAM 22/T22 Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -71 | SB46-00 ✓ | 1 | 8/2/2016 | 1156 | X | | X | X | X | | | | |
| -72 | SB46-12 ✓ | 1 | 8/2/2016 | 1204 | X | | X | X | X | | | | |
| -73 | SB46-24 ✓ | 1 | 8/2/2016 | 1207 | X | | X | X | X | | | | |
| -74 | SB47-00 ✓ | 1 | 8/2/2016 | 1155 | X | | X | X | X | | | | |
| -75 | SB47-12 ✓ | 1 | 8/2/2016 | 1200 | X | | X | X | X | | | | |
| -76 | SB48-00 ✓ — | 5 | 8/2/2016 | 1230 | X | | X | X | X | X | X | X | |
| -77 | SB48-12 ✓ — | 5 | 8/2/2016 | 1237 | X | | X | X | X | X | X | X | |
| -78 | SB48-24 ✓ — | 5 | 8/2/2016 | 1245 | X | | X | X | X | X | X | X | |
| -79 | SB48-48 ✓ — | 5 | 8/2/2016 | 1313 | X | | X | X | X | X | X | X | |
| -80 | SB48-96 ✓ — | 5 | 8/2/2016 | 1346 | X | | X | X | X | X | X | X | |
| -81 | SB49-48 ✓ — | 5 | 8/2/2016 | 1245 | X | | | | | X | X | X | |
| -82 | SB49-96 ✓ — | 5 | 8/2/2016 | 1320 | X | | | | | X | X | X | |

| | | |
|---|---|---|
| Relinquished By: | Received By: | Date and Time: 8/4/16 1440 |
| Relinquished By: 8/4/16 5 | Received By: | Date and Time: 8-4-16 1700 |
| Relinquished By: 8/4/16 1900 | Received By: | Date and Time: 8.4.16 1900 |

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**Chain of Custody and Cooler Receipt Form for 1621629 Page 8 of 18**



BC LABORATORIES, INC. 4100 Atlas Court, Bakersfield, CA 93308 Phone (661) 327-4911 FAX (661) 327-1918

CHAIN OF CUSTODY

1621629

**Project Information**

**Name:** E2Managetech, Inc.

**Phone:** office: 562-740-1060

**Address:** 5001 Airport Plaza Dr, # 260, Long Beach, CA 90815

**Project:** LAUSD - San Pedro HS

**Attn:** Travis Stravasnik (tstravasnik@e2mt.com)

**Project #:** 16-201-005

**Sampler(s):** Kevin Lin; Gabriela Valenzuela

**PO#**

**Comments:** Normal Turnaround Time; Surface samples (-00) are to be tested initially; deeper samples (-12 and -24) on hold

** Sample SB48: *TEST* surface sample for lead arsenic, OCPs, PCBs, TPH, VOCs; *HOLD* middle samples (-12 and -24); *TEST* deeper samples (-48 and -96) for PCBs, TPH, VOCs***

* Please put ws-drum-comp and ww-drum-comp on a separate analytical report *

| Lab# | Sample ID | # of Containers | Date | Time | Sample Matrix: Soil | Water | Analysis Requested: Lead - EPA Method 6010B | Arsenic - EPA Method 6010B | Organochlorine Pesticides - EPA Method 8081 | Polychlorinated Biphenyls - EPA Method 8082 | TPH (gas, diesel, oil) - EPA Method 8015 | VOCs - EPA Method 8260B | CAM 22/17Z2 Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -83 | SB50-00 | 1 | 8/3/2016 | 1424 | X | | | | | X | | | |
| -84 | SB50-12 | 1 | 8/3/2016 | 1428 | X | | | | | X | | | |
| | ~~ws-drum-comp~~ | ~~1~~ | ~~8/3/2016~~ | ~~1458~~ | ~~X~~ | | | | X | | X | X | X |
| | ~~ww-drum-comp~~ | ~~1~~ | ~~8/3/2016~~ | ~~1530~~ | | ~~X~~ | | | X | | X | X | X |

Relinquished By: Received By: Date and Time: 8/4/16 1440

Relinquished By: Received By: Date and Time: 8-4-16 1760

Relinquished By: Received By: Date and Time: 8-4-16 1900

**Chain of Custody and Cooler Receipt Form for 1621629 Page 9 of 18**

COOLER RECEIPT FORM — Page 1 Of 10

BC LABORATORIES INC.

Submission #: 16-21629

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ (Intact? Yes ☐ No ☐) Containers ☐ (Intact? Yes ☐ No ☐) None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: clear glass Thermometer ID: 208 Date/Time 8-4 1855

Temperature: (A) 0.0 °C / (C) 0.0 °C Analyst Init ARL

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|---|---|
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | A | A | A | A | A | A | A | A | A | A |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments: COA

Sample Numbering Completed By: Date/Time: 8/5/16 1235

Corrected

Rev 21 05/23/2016
[S:\WPDocs\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 20]

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**Chain of Custody and Cooler Receipt Form for 1621629 Page 10 of 18**

COOLER RECEIPT FORM — Page 2 Of 10

BC LABORATORIES INC.

Submission #: 16-21629

SHIPPING INFORMATION
Fed Ex ☐ UPS ☑ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☐ No ☐ All samples containers intact? Yes ☐ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: clear glass Thermometer ID: 208 Date/Time 8-4 1855

Temperature: (A) 0.0 °C / (C) 0.0 °C Analyst Init ARL

| SAMPLE CONTAINERS | SAMPLE NUMBERS 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | A | A | A | A | A | A | A | A | A | A |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: AA Date/Time: 8/5/16 1235

Rev 21 05/23/2016
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**Chain of Custody and Cooler Receipt Form for 1621629 Page 11 of 18**

COOLER RECEIPT FORM — Page 3 Of 10

BC LABORATORIES INC.

Submission #: 16-21629

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: clear glass Thermometer ID: 208

Temperature: (A) 0.0 °C / (C) 0.0 °C

Date/Time 8-4 1855

Analyst Init ARL

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 24 | 28 | 29 | 30 | 44 | 45 | 46 | 47 | 48 | 49 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | A | A | A | A | A | A | A | A | A | A |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments: Cox

Sample Numbering Completed By:

Date/Time: 8/5/16 1235

Rev 21 05/23/2016
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**Chain of Custody and Cooler Receipt Form for 1621629 Page 12 of 18**

COOLER RECEIPT FORM — Page 4 Of 10

BC LABORATORIES INC.

Submission #: 16-21629

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☐ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: clear glass Thermometer ID: 208

Temperature: (A) 0.0 °C / (C) 0.0 °C

Date/Time 8.4 1855

Analyst Init ARC

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 56 | 57 | 58 | 76 | 77 | 78 | 79 | 80 | 81 | 82 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | A | A | A | E | E | E | E | E | E | E |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: CDA Date/Time: 8/5/16 1235

Rev 21 05/23/2016
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**Chain of Custody and Cooler Receipt Form for 1621629 Page 13 of 18**

COOLER RECEIPT FORM

BC LABORATORIES INC.

Submission #: 16-21629

SHIPPING INFORMATION
Fed Ex ☐ UPS ☑ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: A clear 8oz glass Thermometer ID: 208

Temperature: (A) 3.1 °C / (C) 3.1 °C

Date/Time 8.4 1855

Analyst Init ARL

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 8 | 9 | 25 | 26 | 27 | 31 | 32 | 33 | 34 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | A | A | A | A | A | A | A | A | A | A |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments: VOA

Sample Numbering Completed By:

A = Actual / C = Corrected

Date/Time: 8/5/16 1235

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**Chain of Custody and Cooler Receipt Form for 1621629 Page 14 of 18**

COOLER RECEIPT FORM

Page 6 of 10

BC LABORATORIES INC.

Submission #: 16-21629

SHIPPING INFORMATION
Fed Ex ☐ UPS ☑ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: A clear glass 8oz Thermometer ID: 208

Temperature: (A) 3.1 °C / (C) 3.1 °C

Date/Time 8.4 1855

Analyst Init ARL

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 35 | 36 | 37 | 38 | 39 | 40 8/5/16 | 41 | 42 | 43 | 50 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | A | A | A | A | A | A | A | A | A | A |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: ODA

Date/Time: 8/5/16 1235

A = Actual / C = Corrected

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**Chain of Custody and Cooler Receipt Form for 1621629 Page 15 of 18**

COOLER RECEIPT FORM

BC LABORATORIES INC.

Submission #: 16-21629

SHIPPING INFORMATION
Fed Ex ☐ UPS ☑ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: A clear glass mason jar Thermometer ID: 208

Temperature: (A) 3.1 8.4 °C / (C) 3.1 °C

Date/Time 8.4 1855

Analyst Init ARL

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 51 | 52 | 53 | 54 | 55 | 59 | 60 | 64 | 68 | 69 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | A | A | A | A | A | A | A | A | A | A |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: ODA Date/Time: 8/5/16 1235

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**Chain of Custody and Cooler Receipt Form for 1621629 Page 16 of 18**

COOLER RECEIPT FORM

BC LABORATORIES INC.

Submission #: 16-21629

SHIPPING INFORMATION
Fed Ex ☐ UPS ☑ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: A clear Thermometer ID: 208

Temperature: (A) 3.1 °C / (C) 3.1 °C

Date/Time 8-4 1855

Analyst Init ARL

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | A | A | A | A | A | A | | | | |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | A>D | A>D | A>D | A>D |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments: ODA

Sample Numbering Completed By:

A = Actual / C = Corrected

Date/Time: 8/5/16 1235

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**Chain of Custody and Cooler Receipt Form for 1621629 Page 17 of 18**

Page 1 of 10

COOLER RECEIPT FORM

BC LABORATORIES INC.

Submission #: 16-21629

SHIPPING INFORMATION
Fed Ex ☐ UPS ☑ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ (Intact? Yes ☐ No ☐) Containers ☐ (Intact? Yes ☐ No ☐) None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: A clear 4/4oz Thermometer ID: 208

Temperature: (A) 3.1 °C / (C) 3.1 °C

Date/Time 8.4 1855

Analyst Init ARL

| SAMPLE CONTAINERS | SAMPLE NUMBERS 80 | 81 | 82 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | A>D | A>D | A>D | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: DOA Date/Time: 8/5/16 1235

A = Actual / C = Corrected

Rev 21 05/23/2016

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**Chain of Custody and Cooler Receipt Form for 1621629 Page 18 of 18**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 10 Of 10

Submission #: 16-21629

SHIPPING INFORMATION: Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER: Ice Chest ☑ None ☐ Box ☐ Other ☐ (Specify)_____

FREE LIQUID: YES ☐ NO ☐ W / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: Clear glass Thermometer ID: 208 Date/Time 8-4 1855

Temperature: (A) 0.5 °C / (C) 0.5 °C Analyst Init ARL

| SAMPLE CONTAINERS | SAMPLE NUMBERS 62 | 63 | 64 | 65 | 66 | 67 | 83 | 84 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: ADA Date/Time: 8/5/16 1235

A = Actual / C = Corrected

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1621629-01** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 12:14 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB22-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-02** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 12:21 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB22-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-03** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 12:34 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB22-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-04** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 11:35 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB23-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-05** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 11:40 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB23-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-06** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 11:45 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB23-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-07** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 11:02 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB24-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1621629-08** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 11:07 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB24-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-09** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 11:11 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB24-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-10** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 14:50 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB25-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-11** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 14:54 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB25-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-12** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 15:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB25-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-13** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 15:21 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB26-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-14** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 15:27 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB26-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1621629-15** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 15:29 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB26-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-16** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 15:15 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB27-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-17** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 15:17 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB27-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-18** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 15:18 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB27-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-19** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 14:20 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB28-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-20** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 14:25 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB28-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-21** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 14:31 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB28-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1621629-22** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 13:45 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB29-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-23** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 13:50 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB29-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-24** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 14:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB29-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-25** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 14:04 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB30-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-26** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 14:08 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB30-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-27** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 14:12 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB30-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-28** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 14:25 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB31-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1621629-29** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 14:28 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB31-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-30** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 14:31 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB31-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-31** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 09:25 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB32-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-32** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 09:49 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB32-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-33** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 09:52 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB32-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-34** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 07:39 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB33-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-35** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 09:27 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB34-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1621629-36** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 09:37 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB34-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-37** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 09:40 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB34-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-38** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 08:53 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB35-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-39** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 08:57 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB35-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-40** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 09:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB35-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-41** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 08:46 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB36-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-42** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 08:54 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB36-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1621629-43** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 09:01 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB36-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-44** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 14:32 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB37-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-45** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 14:36 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB37-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-46** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/01/2016 14:40 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB37-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-47** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 08:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB38-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-48** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 08:04 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB38-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-49** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 08:07 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB38-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1621629-50** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 08:28 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB39-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-51** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 08:33 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB39-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-52** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 08:36 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB39-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-53** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 07:20 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB40-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-54** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 07:23 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB40-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-55** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 07:25 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB40-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-56** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 10:34 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB41-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1621629-57** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 10:38 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB41-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-58** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 10:41 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB41-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-59** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 09:17 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB42-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-60** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 09:23 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB42-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-61** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 09:29 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB42-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-62** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 09:45 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB43-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-63** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 09:55 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB43-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1621629-64** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 10:01 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB43-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-65** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 10:16 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB44-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-66** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 10:20 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB44-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-67** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 10:23 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB44-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-68** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 09:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB45-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-69** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 09:05 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB45-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-70** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 09:08 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB45-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1621629-71** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 11:56 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB46-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-72** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 12:04 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB46-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-73** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 12:07 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB46-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-74** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 11:55 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB47-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-75** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 12:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB47-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-76** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 12:30 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB48-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-77** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 12:37 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB48-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1621629-78** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 12:45 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB48-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-79** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 13:13 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB48-48 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-80** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 13:46 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB48-96 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-81** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 12:45 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB49-48 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-82** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/02/2016 13:20 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB49-96 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-83** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 14:24 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB50-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1621629-84** | **COC Number:** | --- | **Receive Date:** | 08/04/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 08/03/2016 14:28 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB50-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-01 | **Client Sample Name:** SB22-00, 8/1/2016 12:14:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0010 | 0.00013 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0010 | 0.00012 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0010 | 0.000068 | EPA-8081A | 4.0 | A10 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.10 | 0.0030 | EPA-8081A | 2.5 | A10 | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0010 | 0.00016 | EPA-8081A | 1.0 | A10 | 1 |
| **Dieldrin** | **0.010** | **mg/kg** | **0.0010** | **0.00014** | **EPA-8081A** | 8.0 | **A10** | 1 |
| Endosulfan I | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0010 | 0.00020 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0010 | 0.00019 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0010 | 0.00016 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.10 | 0.0026 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 67.9 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 78.5 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/12/16 | 08/15/16 09:52 | HKS | GC-17 | 2.013 | BZH1313 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-01 | **Client Sample Name:** SB22-00, 8/1/2016 12:14:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **13** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **46** | **mg/kg** | **5.0** | **0.56** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 14:41 | JCC | PE-OP3 | 2 | BZH0820 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-02 | **Client Sample Name:** SB22-12, 8/1/2016 12:21:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **2.6** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **J,A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/02/16 | 09/02/16 13:01 | JRG | PE-OP2 | 5 | BZI0165 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-04 | **Client Sample Name:** SB23-00, 8/1/2016 11:35:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0025 | 0.00032 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0025 | 0.00036 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0025 | 0.00030 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0025 | 0.00017 | EPA-8081A | 4.0 | A10 | 1 |
| **Chlordane (Technical)** | **0.24** | **mg/kg** | **0.25** | **0.0075** | **EPA-8081A** | 2.5 | **J,A10** | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0025 | 0.00042 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0025 | 0.00042 | EPA-8081A | 1.0 | A10 | 1 |
| **4,4'-DDT** | **0.00066** | **mg/kg** | **0.0025** | **0.00039** | **EPA-8081A** | 1.0 | **J,A10** | 1 |
| Dieldrin | ND | mg/kg | 0.0025 | 0.00035 | EPA-8081A | 8.0 | A10 | 1 |
| Endosulfan I | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0025 | 0.00050 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0025 | 0.00048 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0025 | 0.00039 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.25 | 0.0065 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 94.1 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 97.0 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/12/16 | 08/15/16 10:06 | HKS | GC-17 | 5.034 | BZH1313 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# WET Test (STLC)

**BCL Sample ID:** 1621629-04 | **Client Sample Name:** SB23-00, 8/1/2016 11:35:00AM

| Constituent | Result | Units | PQL | MDL | Method | STLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **10** | **mg/L** | **0.50** | **0.16** | **EPA-6010B** | 5.0 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/02/16 | 09/02/16 14:47 | JRG | PE-OP2 | 1 | BZI0259 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# TCLP Toxicity

**BCL Sample ID:** 1621629-04 | **Client Sample Name:** SB23-00, 8/1/2016 11:35:00AM

| Constituent | Result | Units | PQL | MDL | Method | TCLP Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **0.064** | **mg/L** | **0.50** | **0.030** | **EPA-6010B** | 5.0 | **J** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/01/16 | 09/01/16 18:17 | JCC | PE-OP3 | 1 | BZI0090 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-04 | **Client Sample Name:** SB23-00, 8/1/2016 11:35:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **6.1** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **230** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 14:27 | JCC | PE-OP3 | 0.971 | BZH0820 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-05 | **Client Sample Name:** SB23-12, 8/1/2016 11:40:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **5.5** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/02/16 | 09/02/16 12:38 | JRG | PE-OP2 | 1 | BZI0165 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-07 | **Client Sample Name:** SB24-00, 8/1/2016 11:02:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0025 | 0.00032 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0025 | 0.00036 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0025 | 0.00030 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0025 | 0.00017 | EPA-8081A | 4.0 | A10 | 1 |
| **Chlordane (Technical)** | **0.33** | **mg/kg** | **0.25** | **0.0075** | **EPA-8081A** | 2.5 | **A10** | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0025 | 0.00042 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0025 | 0.00042 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0025 | 0.00039 | EPA-8081A | 1.0 | A10 | 1 |
| **Dieldrin** | **0.00038** | **mg/kg** | **0.0025** | **0.00035** | **EPA-8081A** | 8.0 | **J,A10** | 1 |
| Endosulfan I | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0025 | 0.00050 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0025 | 0.00048 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0025 | 0.00039 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.25 | 0.0065 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 64.9 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 64.4 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/12/16 | 08/15/16 10:21 | HKS | GC-17 | 5.085 | BZH1313 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-07 | **Client Sample Name:** SB24-00, 8/1/2016 11:02:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **1.4** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **2.7** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 14:29 | JCC | PE-OP3 | 0.980 | BZH0820 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-10 | **Client Sample Name:** SB25-00, 8/2/2016 2:50:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0025 | 0.00032 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0025 | 0.00036 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0025 | 0.00030 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0025 | 0.00017 | EPA-8081A | 4.0 | A10 | 1 |
| **Chlordane (Technical)** | **1.1** | **mg/kg** | **0.25** | **0.0075** | **EPA-8081A** | 2.5 | **A10** | 1 |
| **4,4'-DDD** | **0.030** | **mg/kg** | **0.0025** | **0.00042** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **4,4'-DDE** | **0.0042** | **mg/kg** | **0.00050** | **0.000083** | **EPA-8081A** | 1.0 | **A10** | 2 |
| **4,4'-DDT** | **0.030** | **mg/kg** | **0.0025** | **0.00039** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **Dieldrin** | **0.036** | **mg/kg** | **0.0025** | **0.00035** | **EPA-8081A** | 8.0 | **A10** | 1 |
| Endosulfan I | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0025 | 0.00050 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0025 | 0.00048 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0025 | 0.00039 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.25 | 0.0065 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 94.8 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 74.1 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/12/16 | 08/15/16 10:35 | HKS | GC-17 | 5.068 | BZH1313 |
| 2 | EPA-8081A | 08/12/16 | 08/17/16 11:08 | HKS | GC-17 | 1.014 | BZH1313 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-10 | **Client Sample Name:** SB25-00, 8/2/2016 2:50:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **20** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **78** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 14:31 | JCC | PE-OP3 | 0.980 | BZH0820 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-11 | **Client Sample Name:** SB25-12, 8/2/2016 2:54:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 1.4 | A10,S05 | 1 |
| alpha-BHC | ND | mg/kg | 0.0025 | 0.00032 | EPA-8081A | | A10,S05 | 1 |
| beta-BHC | ND | mg/kg | 0.0025 | 0.00036 | EPA-8081A | | A10,S05 | 1 |
| delta-BHC | ND | mg/kg | 0.0025 | 0.00030 | EPA-8081A | | A10,S05 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0025 | 0.00017 | EPA-8081A | 4.0 | A10,S05 | 1 |
| **Chlordane (Technical)** | **0.26** | **mg/kg** | **0.25** | **0.0075** | **EPA-8081A** | 2.5 | **A10,S05** | 1 |
| **4,4'-DDD** | **0.018** | **mg/kg** | **0.0025** | **0.00042** | **EPA-8081A** | 1.0 | **A10,S05** | 1 |
| **4,4'-DDE** | **0.037** | **mg/kg** | **0.0025** | **0.00042** | **EPA-8081A** | 1.0 | **A10,S05** | 1 |
| **4,4'-DDT** | **0.017** | **mg/kg** | **0.0025** | **0.00039** | **EPA-8081A** | 1.0 | **A10,S05** | 1 |
| **Dieldrin** | **0.019** | **mg/kg** | **0.0025** | **0.00035** | **EPA-8081A** | 8.0 | **A10,S05** | 1 |
| Endosulfan I | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | | A10,S05 | 1 |
| Endosulfan II | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | | A10,S05 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0025 | 0.00050 | EPA-8081A | | A10,S05 | 1 |
| Endrin | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | 0.2 | A10,S05 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0025 | 0.00048 | EPA-8081A | | A10,S05 | 1 |
| Heptachlor | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 4.7 | A10,S05 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0025 | 0.00039 | EPA-8081A | | A10,S05 | 1 |
| Methoxychlor | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | 100 | A10,S05 | 1 |
| Toxaphene | ND | mg/kg | 0.25 | 0.0065 | EPA-8081A | 5 | A10,S05 | 1 |
| TCMX (Surrogate) | 73.2 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10,S05 | 1 |
| Decachlorobiphenyl (Surrogate) | 59.0 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10,S05 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/01/16 | 09/02/16 19:40 | HKS | GC-17 | 4.983 | BZI0339 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-11 | **Client Sample Name:** SB25-12, 8/2/2016 2:54:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **17** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/02/16 | 09/02/16 13:12 | JRG | PE-OP2 | 0.943 | BZI0165 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-12 | **Client Sample Name:** SB25-24, 8/2/2016 3:00:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **20** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/07/16 | 10/12/16 17:04 | JCC | PE-OP3 | 1.980 | BZJ0692 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-13 | **Client Sample Name:** SB26-00, 8/2/2016 3:21:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0025 | 0.00032 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0025 | 0.00036 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0025 | 0.00030 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0025 | 0.00017 | EPA-8081A | 4.0 | A10 | 1 |
| **Chlordane (Technical)** | **0.55** | **mg/kg** | **0.25** | **0.0075** | **EPA-8081A** | 2.5 | **A10** | 1 |
| **4,4'-DDD** | **0.016** | **mg/kg** | **0.0025** | **0.00042** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **4,4'-DDE** | **0.0055** | **mg/kg** | **0.0025** | **0.00042** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **4,4'-DDT** | **0.011** | **mg/kg** | **0.0025** | **0.00039** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **Dieldrin** | **0.025** | **mg/kg** | **0.0025** | **0.00035** | **EPA-8081A** | 8.0 | **A10** | 1 |
| Endosulfan I | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0025 | 0.00050 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0025 | 0.00048 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0025 | 0.00039 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.25 | 0.0065 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 41.4 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 38.0 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/12/16 | 08/15/16 10:50 | HKS | GC-17 | 4.950 | BZH1313 |

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Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-13 | **Client Sample Name:** SB26-00, 8/2/2016 3:21:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **14** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **190** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 14:32 | JCC | PE-OP3 | 0.952 | BZH0820 |

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Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-14 | **Client Sample Name:** SB26-12, 8/2/2016 3:27:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | S05 | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | S05 | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | S05 | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | S05 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | S05 | 1 |
| **Chlordane (Technical)** | **0.0017** | **mg/kg** | **0.050** | **0.0015** | **EPA-8081A** | 2.5 | **J,S05** | 1 |
| **4,4'-DDD** | **0.00027** | **mg/kg** | **0.00050** | **0.000085** | **EPA-8081A** | 1.0 | **J,S05** | 1 |
| 4,4'-DDE | ND | mg/kg | 0.00050 | 0.000083 | EPA-8081A | 1.0 | S05 | 1 |
| **4,4'-DDT** | **0.00039** | **mg/kg** | **0.00050** | **0.000078** | **EPA-8081A** | 1.0 | **J,S05** | 1 |
| **Dieldrin** | **0.00037** | **mg/kg** | **0.00050** | **0.000070** | **EPA-8081A** | 8.0 | **J,S05** | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | S05 | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | S05 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | S05 | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | S05 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | S05 | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | S05 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | S05 | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | S05 | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | S05 | 1 |
| TCMX (Surrogate) | 43.9 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | S05 | 1 |
| Decachlorobiphenyl (Surrogate) | 35.4 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | S05 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/01/16 | 09/02/16 17:00 | HKS | GC-17 | 1.017 | BZI0339 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-14 | **Client Sample Name:** SB26-12, 8/2/2016 3:27:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **3.0** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **6.4** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/02/16 | 09/02/16 13:14 | JRG | PE-OP2 | 0.971 | BZI0165 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-16 | **Client Sample Name:** SB27-00, 8/2/2016 3:15:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| **Chlordane (Technical)** | **0.066** | **mg/kg** | **0.050** | **0.0015** | **EPA-8081A** | 2.5 | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.00050 | 0.000085 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.00050 | 0.000083 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | 1.0 | | 1 |
| Dieldrin | ND | mg/kg | 0.00050 | 0.000070 | EPA-8081A | 8.0 | | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 58.9 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 62.3 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/12/16 | 08/15/16 11:04 | HKS | GC-17 | 1.017 | BZH1313 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-16 | **Client Sample Name:** SB27-00, 8/2/2016 3:15:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **45** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **10** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 14:49 | JCC | PE-OP3 | 0.962 | BZH0820 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-17 | **Client Sample Name:** SB27-12, 8/2/2016 3:17:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **30** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/02/16 | 09/02/16 13:15 | JRG | PE-OP2 | 0.980 | BZI0165 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-18 | **Client Sample Name:** SB27-24, 8/2/2016 3:18:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **21** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/07/16 | 10/12/16 17:05 | JCC | PE-OP3 | 1.961 | BZJ0692 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-19 | **Client Sample Name:** SB28-00, 8/2/2016 2:20:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0083 | 0.00092 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.0083 | 0.0011 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.0083 | 0.0012 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.0083 | 0.00098 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0083 | 0.00057 | EPA-8081A | 4.0 | | 1 |
| **Chlordane (Technical)** | **0.43** | **mg/kg** | **0.83** | **0.025** | **EPA-8081A** | 2.5 | **J** | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0083 | 0.0014 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0083 | 0.0014 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0083 | 0.0013 | EPA-8081A | 1.0 | | 1 |
| Dieldrin | ND | mg/kg | 0.0083 | 0.0012 | EPA-8081A | 8.0 | | 1 |
| Endosulfan I | ND | mg/kg | 0.0083 | 0.0014 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.0083 | 0.0018 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0083 | 0.0016 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.0083 | 0.0014 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0083 | 0.0016 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.0083 | 0.00095 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0083 | 0.0013 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.0083 | 0.0018 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.83 | 0.022 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 91.1 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 85.9 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/12/16 | 08/15/16 15:03 | HKS | GC-17 | 16.667 | BZH1313 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-19 | **Client Sample Name:** SB28-00, 8/2/2016 2:20:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **8.0** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **60** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 14:54 | JCC | PE-OP3 | 0.935 | BZH0820 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-22 | **Client Sample Name:** SB29-00, 8/1/2016 1:45:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| **Chlordane (Technical)** | **0.70** | **mg/kg** | **0.25** | **0.0075** | **EPA-8081A** | 2.5 | **A10** | 2 |
| **4,4'-DDD** | **0.025** | **mg/kg** | **0.0025** | **0.00042** | **EPA-8081A** | 1.0 | **A10** | 2 |
| 4,4'-DDE | ND | mg/kg | 0.00050 | 0.000083 | EPA-8081A | 1.0 | | 1 |
| **4,4'-DDT** | **0.0040** | **mg/kg** | **0.00050** | **0.000078** | **EPA-8081A** | 1.0 | | 1 |
| **Dieldrin** | **0.018** | **mg/kg** | **0.0025** | **0.00035** | **EPA-8081A** | 8.0 | **A10** | 2 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 100 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 89.9 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/12/16 | 08/15/16 15:18 | HKS | GC-17 | 1.017 | BZH1313 |
| 2 | EPA-8081A | 08/12/16 | 08/17/16 09:26 | HKS | GC-17 | 5.085 | BZH1313 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-22 | **Client Sample Name:** SB29-00, 8/1/2016 1:45:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **9.0** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **28** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 14:55 | JCC | PE-OP3 | 0.962 | BZH0820 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-23 | **Client Sample Name:** SB29-12, 8/1/2016 1:50:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 1.4 | A10,S05 | 1 |
| alpha-BHC | ND | mg/kg | 0.0025 | 0.00032 | EPA-8081A | | A10,S05 | 1 |
| beta-BHC | ND | mg/kg | 0.0025 | 0.00036 | EPA-8081A | | A10,S05 | 1 |
| delta-BHC | ND | mg/kg | 0.0025 | 0.00030 | EPA-8081A | | A10,S05 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0025 | 0.00017 | EPA-8081A | 4.0 | A10,S05 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.25 | 0.0075 | EPA-8081A | 2.5 | A10,S05 | 1 |
| **4,4'-DDD** | **0.0052** | **mg/kg** | **0.0025** | **0.00042** | **EPA-8081A** | 1.0 | **A10,S05** | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0025 | 0.00042 | EPA-8081A | 1.0 | A10,S05 | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0025 | 0.00039 | EPA-8081A | 1.0 | A10,S05 | 1 |
| **Dieldrin** | **0.0035** | **mg/kg** | **0.0025** | **0.00035** | **EPA-8081A** | 8.0 | **A10,S05** | 1 |
| Endosulfan I | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | | A10,S05 | 1 |
| Endosulfan II | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | | A10,S05 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0025 | 0.00050 | EPA-8081A | | A10,S05 | 1 |
| Endrin | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | 0.2 | A10,S05 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0025 | 0.00048 | EPA-8081A | | A10,S05 | 1 |
| Heptachlor | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 4.7 | A10,S05 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0025 | 0.00039 | EPA-8081A | | A10,S05 | 1 |
| Methoxychlor | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | 100 | A10,S05 | 1 |
| Toxaphene | ND | mg/kg | 0.25 | 0.0065 | EPA-8081A | 5 | A10,S05 | 1 |
| TCMX (Surrogate) | 65.2 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10,S05 | 1 |
| Decachlorobiphenyl (Surrogate) | 57.8 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10,S05 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/01/16 | 09/02/16 19:11 | HKS | GC-17 | 4.918 | BZI0339 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-25 | **Client Sample Name:** SB30-00, 8/2/2016 2:04:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.039 | 0.0043 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.039 | 0.0051 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.039 | 0.0056 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.039 | 0.0047 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.039 | 0.0027 | EPA-8081A | 4.0 | A10 | 1 |
| **Chlordane (Technical)** | **1.7** | **mg/kg** | **0.79** | **0.12** | **EPA-8081A** | 2.5 | **A10** | 1 |
| 4,4'-DDD | ND | mg/kg | 0.039 | 0.0067 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDE | ND | mg/kg | 0.039 | 0.0066 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDT | ND | mg/kg | 0.039 | 0.0062 | EPA-8081A | 1.0 | A10 | 1 |
| Dieldrin | ND | mg/kg | 0.039 | 0.0055 | EPA-8081A | 8.0 | A10 | 1 |
| Endosulfan I | ND | mg/kg | 0.039 | 0.0069 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.039 | 0.0087 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.039 | 0.0078 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.039 | 0.0069 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.039 | 0.0077 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.039 | 0.0045 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.039 | 0.0062 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.039 | 0.0087 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 3.9 | 0.10 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 57.0 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 55.5 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/12/16 | 08/15/16 15:32 | HKS | GC-17 | 78.947 | BZH1313 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A) (TCLP Extract)

**BCL Sample ID:** 1621629-25 | **Client Sample Name:** SB30-00, 8/2/2016 2:04:00PM

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| gamma-BHC (Lindane) | ND | mg/L | 0.000050 | 0.0000019 | EPA-8081A | ND | | 1 |
| Chlordane (Technical) | ND | mg/L | 0.0050 | 0.000085 | EPA-8081A | ND | | 1 |
| Endrin | ND | mg/L | 0.000050 | 0.0000033 | EPA-8081A | ND | | 1 |
| Heptachlor | ND | mg/L | 0.000050 | 0.0000032 | EPA-8081A | ND | | 1 |
| Heptachlor epoxide | ND | mg/L | 0.000050 | 0.0000048 | EPA-8081A | ND | | 1 |
| Methoxychlor | ND | mg/L | 0.000050 | 0.0000035 | EPA-8081A | ND | | 1 |
| Toxaphene | ND | mg/L | 0.020 | 0.00020 | EPA-8081A | ND | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/01/16 | 09/02/16 12:53 | HKS | GC-17 | 1 | BZI0212 |

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Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# PCB Analysis (EPA Method 8082)

**BCL Sample ID:** 1621629-25 | **Client Sample Name:** SB30-00, 8/2/2016 2:04:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | mg/kg | 0.010 | 0.0039 | EPA-8082 | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 0.010 | 0.0072 | EPA-8082 | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 0.010 | 0.0074 | EPA-8082 | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 0.010 | 0.0042 | EPA-8082 | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 0.010 | 0.0070 | EPA-8082 | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 0.010 | 0.0032 | EPA-8082 | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 0.010 | 0.0029 | EPA-8082 | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 0.010 | 0.0050 | EPA-8082 | 50 | | 1 |
| Decachlorobiphenyl (Surrogate) | 56.7 | % | 40 - 120 (LCL - UCL) | | EPA-8082 | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8082 | 08/10/16 | 08/11/16 13:43 | HKS | GC-15 | 1.010 | BZH1085 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-25 | **Client Sample Name:** SB30-00, 8/2/2016 2:04:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **5.0** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **44** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 14:57 | JCC | PE-OP3 | 0.962 | BZH0820 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-26 | **Client Sample Name:** SB30-12, 8/2/2016 2:08:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0050 | 0.00055 | EPA-8081A | 1.4 | A10,S05 | 1 |
| alpha-BHC | ND | mg/kg | 0.0050 | 0.00064 | EPA-8081A | | A10,S05 | 1 |
| beta-BHC | ND | mg/kg | 0.0050 | 0.00071 | EPA-8081A | | A10,S05 | 1 |
| delta-BHC | ND | mg/kg | 0.0050 | 0.00059 | EPA-8081A | | A10,S05 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0050 | 0.00034 | EPA-8081A | 4.0 | A10,S05 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.50 | 0.015 | EPA-8081A | 2.5 | A10,S05 | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0050 | 0.00085 | EPA-8081A | 1.0 | A10,S05 | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0050 | 0.00083 | EPA-8081A | 1.0 | A10,S05 | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0050 | 0.00078 | EPA-8081A | 1.0 | A10,S05 | 1 |
| Dieldrin | ND | mg/kg | 0.0050 | 0.00070 | EPA-8081A | 8.0 | A10,S05 | 1 |
| Endosulfan I | ND | mg/kg | 0.0050 | 0.00087 | EPA-8081A | | A10,S05 | 1 |
| Endosulfan II | ND | mg/kg | 0.0050 | 0.0011 | EPA-8081A | | A10,S05 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0050 | 0.00099 | EPA-8081A | | A10,S05 | 1 |
| Endrin | ND | mg/kg | 0.0050 | 0.00087 | EPA-8081A | 0.2 | A10,S05 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0050 | 0.00097 | EPA-8081A | | A10,S05 | 1 |
| Heptachlor | ND | mg/kg | 0.0050 | 0.00057 | EPA-8081A | 4.7 | A10,S05 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0050 | 0.00078 | EPA-8081A | | A10,S05 | 1 |
| Methoxychlor | ND | mg/kg | 0.0050 | 0.0011 | EPA-8081A | 100 | A10,S05 | 1 |
| Toxaphene | ND | mg/kg | 0.50 | 0.013 | EPA-8081A | 5 | A10,S05 | 1 |
| TCMX (Surrogate) | 67.6 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10,S05 | 1 |
| Decachlorobiphenyl (Surrogate) | 49.1 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10,S05 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/01/16 | 09/02/16 18:27 | HKS | GC-17 | 10.033 | BZI0339 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-28 | **Client Sample Name:** SB31-00, 8/2/2016 2:25:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0010 | 0.00013 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0010 | 0.00012 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0010 | 0.000068 | EPA-8081A | 4.0 | A10 | 1 |
| **Chlordane (Technical)** | **0.66** | **mg/kg** | **0.10** | **0.0030** | **EPA-8081A** | 2.5 | **A10** | 1 |
| **4,4'-DDD** | **0.033** | **mg/kg** | **0.0050** | **0.00085** | **EPA-8081A** | 1.0 | **A10** | 2 |
| **4,4'-DDE** | **0.040** | **mg/kg** | **0.0050** | **0.00083** | **EPA-8081A** | 1.0 | **A10** | 2 |
| **4,4'-DDT** | **0.011** | **mg/kg** | **0.0050** | **0.00078** | **EPA-8081A** | 1.0 | **A10** | 2 |
| **Dieldrin** | **0.064** | **mg/kg** | **0.0050** | **0.00070** | **EPA-8081A** | 8.0 | **A10** | 2 |
| Endosulfan I | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0010 | 0.00020 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0010 | 0.00019 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0010 | 0.00016 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.10 | 0.0026 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 61.4 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 44.2 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/12/16 | 08/15/16 15:47 | HKS | GC-17 | 2.027 | BZH1313 |
| 2 | EPA-8081A | 08/12/16 | 08/17/16 09:41 | HKS | GC-17 | 10.135 | BZH1313 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-28 | **Client Sample Name:** SB31-00, 8/2/2016 2:25:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **6.6** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **82** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 14:58 | JCC | PE-OP3 | 0.962 | BZH0820 |

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Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-29 | **Client Sample Name:** SB31-12, 8/2/2016 2:28:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 1.4 | A10,S05 | 1 |
| alpha-BHC | ND | mg/kg | 0.0010 | 0.00013 | EPA-8081A | | A10,S05 | 1 |
| beta-BHC | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | | A10,S05 | 1 |
| delta-BHC | ND | mg/kg | 0.0010 | 0.00012 | EPA-8081A | | A10,S05 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0010 | 0.000068 | EPA-8081A | 4.0 | A10,S05 | 1 |
| **Chlordane (Technical)** | **0.064** | **mg/kg** | **0.10** | **0.0030** | **EPA-8081A** | 2.5 | **J,A10,S05** | 1 |
| **4,4'-DDD** | **0.0029** | **mg/kg** | **0.0010** | **0.00017** | **EPA-8081A** | 1.0 | **A10,S05** | 1 |
| **4,4'-DDE** | **0.0054** | **mg/kg** | **0.0010** | **0.00017** | **EPA-8081A** | 1.0 | **A10,S05** | 1 |
| **4,4'-DDT** | **0.0034** | **mg/kg** | **0.0010** | **0.00016** | **EPA-8081A** | 1.0 | **A10,S05** | 1 |
| **Dieldrin** | **0.0067** | **mg/kg** | **0.0010** | **0.00014** | **EPA-8081A** | 8.0 | **A10,S05** | 1 |
| Endosulfan I | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | | A10,S05 | 1 |
| Endosulfan II | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | | A10,S05 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0010 | 0.00020 | EPA-8081A | | A10,S05 | 1 |
| Endrin | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 0.2 | A10,S05 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0010 | 0.00019 | EPA-8081A | | A10,S05 | 1 |
| Heptachlor | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 4.7 | A10,S05 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0010 | 0.00016 | EPA-8081A | | A10,S05 | 1 |
| Methoxychlor | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | 100 | A10,S05 | 1 |
| Toxaphene | ND | mg/kg | 0.10 | 0.0026 | EPA-8081A | 5 | A10,S05 | 1 |
| TCMX (Surrogate) | 49.8 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10,S05 | 1 |
| Decachlorobiphenyl (Surrogate) | 39.4 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10,S05 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/01/16 | 09/02/16 18:42 | HKS | GC-17 | 2.027 | BZI0339 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-29 | **Client Sample Name:** SB31-12, 8/2/2016 2:28:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **23** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/02/16 | 09/02/16 13:16 | JRG | PE-OP2 | 0.962 | BZI0165 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-31 | **Client Sample Name:** SB32-00, 8/1/2016 9:25:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| **Chlordane (Technical)** | **0.10** | **mg/kg** | **0.050** | **0.0015** | **EPA-8081A** | 2.5 | | 1 |
| **4,4'-DDD** | **0.0023** | **mg/kg** | **0.00050** | **0.000085** | **EPA-8081A** | 1.0 | | 1 |
| **4,4'-DDE** | **0.00087** | **mg/kg** | **0.00050** | **0.000083** | **EPA-8081A** | 1.0 | | 1 |
| **4,4'-DDT** | **0.0015** | **mg/kg** | **0.00050** | **0.000078** | **EPA-8081A** | 1.0 | | 1 |
| **Dieldrin** | **0.0036** | **mg/kg** | **0.00050** | **0.000070** | **EPA-8081A** | 8.0 | | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| **Heptachlor epoxide** | **0.0011** | **mg/kg** | **0.00050** | **0.000078** | **EPA-8081A** | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 78.6 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 58.4 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/12/16 | 08/15/16 16:01 | HKS | GC-17 | 1.010 | BZH1313 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-31 | **Client Sample Name:** SB32-00, 8/1/2016 9:25:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **4.4** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **31** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 15:00 | JCC | PE-OP3 | 0.980 | BZH0820 |

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Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-34 | **Client Sample Name:** SB33-00, 8/2/2016 7:39:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.050 | 0.0015 | EPA-8081A | 2.5 | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.00050 | 0.000085 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.00050 | 0.000083 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | 1.0 | | 1 |
| Dieldrin | ND | mg/kg | 0.00050 | 0.000070 | EPA-8081A | 8.0 | | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 65.1 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 62.8 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/12/16 | 08/15/16 16:16 | HKS | GC-17 | 1.010 | BZH1313 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-34 | **Client Sample Name:** SB33-00, 8/2/2016 7:39:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **7.0** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **5.6** | **mg/kg** | **5.0** | **0.56** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 15:02 | JCC | PE-OP3 | 1.905 | BZH0820 |

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Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-35 | **Client Sample Name:** SB34-00, 8/1/2016 9:27:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0010 | 0.00013 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0010 | 0.00012 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0010 | 0.000068 | EPA-8081A | 4.0 | A10 | 1 |
| **Chlordane (Technical)** | **0.14** | **mg/kg** | **0.10** | **0.0030** | **EPA-8081A** | 2.5 | **A10** | 1 |
| **4,4'-DDD** | **0.0025** | **mg/kg** | **0.0010** | **0.00017** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **4,4'-DDE** | **0.00032** | **mg/kg** | **0.0010** | **0.00017** | **EPA-8081A** | 1.0 | **J,A10** | 1 |
| **4,4'-DDT** | **0.0014** | **mg/kg** | **0.0010** | **0.00016** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **Dieldrin** | **0.0054** | **mg/kg** | **0.0010** | **0.00014** | **EPA-8081A** | 8.0 | **A10** | 1 |
| Endosulfan I | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0010 | 0.00020 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0010 | 0.00019 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 4.7 | A10 | 1 |
| **Heptachlor epoxide** | **0.0020** | **mg/kg** | **0.0010** | **0.00016** | **EPA-8081A** | | **A10** | 1 |
| Methoxychlor | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.10 | 0.0026 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 47.4 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 36.5 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/12/16 | 08/15/16 16:30 | HKS | GC-17 | 2.013 | BZH1313 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-35 | **Client Sample Name:** SB34-00, 8/1/2016 9:27:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **7.1** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **110** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 15:03 | JCC | PE-OP3 | 0.917 | BZH0820 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-36 | **Client Sample Name:** SB34-12, 8/1/2016 9:37:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **13** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/02/16 | 09/02/16 13:18 | JRG | PE-OP2 | 0.917 | BZI0165 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-38 | **Client Sample Name:** SB35-00, 8/1/2016 8:53:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0010 | 0.00013 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0010 | 0.00012 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0010 | 0.000068 | EPA-8081A | 4.0 | A10 | 1 |
| **Chlordane (Technical)** | **0.35** | **mg/kg** | **0.10** | **0.0030** | **EPA-8081A** | 2.5 | **A10** | 1 |
| **4,4'-DDD** | **0.0039** | **mg/kg** | **0.0010** | **0.00017** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **4,4'-DDE** | **0.0020** | **mg/kg** | **0.0010** | **0.00017** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **4,4'-DDT** | **0.0032** | **mg/kg** | **0.0010** | **0.00016** | **EPA-8081A** | 1.0 | **A10** | 1 |
| Dieldrin | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | 8.0 | A10 | 1 |
| Endosulfan I | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0010 | 0.00020 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0010 | 0.00019 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0010 | 0.00016 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.10 | 0.0026 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 89.1 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 40.5 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/12/16 | 08/15/16 16:45 | HKS | GC-17 | 2.007 | BZH1313 |

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Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-38 | **Client Sample Name:** SB35-00, 8/1/2016 8:53:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **5.9** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **35** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 15:05 | JCC | PE-OP3 | 0.980 | BZH0820 |

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Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-41 | **Client Sample Name:** SB36-00, 8/1/2016 8:46:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0028 | 0.00031 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0028 | 0.00036 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0028 | 0.00040 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0028 | 0.00033 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0028 | 0.00019 | EPA-8081A | 4.0 | A10 | 1 |
| **Chlordane (Technical)** | **0.62** | **mg/kg** | **0.28** | **0.0084** | **EPA-8081A** | 2.5 | **A10** | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0028 | 0.00048 | EPA-8081A | 1.0 | A10 | 1 |
| **4,4'-DDE** | **0.0038** | **mg/kg** | **0.0028** | **0.00047** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **4,4'-DDT** | **0.0091** | **mg/kg** | **0.0028** | **0.00044** | **EPA-8081A** | 1.0 | **A10** | 1 |
| Dieldrin | ND | mg/kg | 0.0028 | 0.00039 | EPA-8081A | 8.0 | A10 | 1 |
| Endosulfan I | ND | mg/kg | 0.0028 | 0.00049 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0028 | 0.00062 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0028 | 0.00056 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0028 | 0.00049 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0028 | 0.00054 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0028 | 0.00032 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0028 | 0.00044 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0028 | 0.00062 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.28 | 0.0073 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 42.3 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 55.4 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/12/16 | 08/15/16 16:59 | HKS | GC-17 | 5.607 | BZH1313 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-41 | **Client Sample Name:** SB36-00, 8/1/2016 8:46:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.75** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | **J** | 1 |
| **Lead** | **190** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 15:06 | JCC | PE-OP3 | 0.971 | BZH0820 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-42 | **Client Sample Name:** SB36-12, 8/1/2016 8:54:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 1.4 | A10,S05 | 1 |
| alpha-BHC | ND | mg/kg | 0.0025 | 0.00032 | EPA-8081A | | A10,S05 | 1 |
| beta-BHC | ND | mg/kg | 0.0025 | 0.00036 | EPA-8081A | | A10,S05 | 1 |
| delta-BHC | ND | mg/kg | 0.0025 | 0.00030 | EPA-8081A | | A10,S05 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0025 | 0.00017 | EPA-8081A | 4.0 | A10,S05 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.25 | 0.0075 | EPA-8081A | 2.5 | A10,S05 | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0025 | 0.00042 | EPA-8081A | 1.0 | A10,S05 | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0025 | 0.00042 | EPA-8081A | 1.0 | A10,S05 | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0025 | 0.00039 | EPA-8081A | 1.0 | A10,S05 | 1 |
| Dieldrin | ND | mg/kg | 0.0025 | 0.00035 | EPA-8081A | 8.0 | A10,S05 | 1 |
| Endosulfan I | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | | A10,S05 | 1 |
| Endosulfan II | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | | A10,S05 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0025 | 0.00050 | EPA-8081A | | A10,S05 | 1 |
| Endrin | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | 0.2 | A10,S05 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0025 | 0.00048 | EPA-8081A | | A10,S05 | 1 |
| Heptachlor | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 4.7 | A10,S05 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0025 | 0.00039 | EPA-8081A | | A10,S05 | 1 |
| Methoxychlor | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | 100 | A10,S05 | 1 |
| Toxaphene | ND | mg/kg | 0.25 | 0.0065 | EPA-8081A | 5 | A10,S05 | 1 |
| TCMX (Surrogate) | 41.5 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10,S05 | 1 |
| Decachlorobiphenyl (Surrogate) | 47.1 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10,S05 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/01/16 | 09/02/16 18:57 | HKS | GC-17 | 5.085 | BZI0339 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-42 | **Client Sample Name:** SB36-12, 8/1/2016 8:54:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **53** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/02/16 | 09/02/16 13:19 | JRG | PE-OP2 | 0.971 | BZI0165 |

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Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-44 | **Client Sample Name:** SB37-00, 8/1/2016 2:32:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| **Chlordane (Technical)** | **0.11** | **mg/kg** | **0.050** | **0.0015** | **EPA-8081A** | 2.5 | | 1 |
| **4,4'-DDD** | **0.0036** | **mg/kg** | **0.00050** | **0.000085** | **EPA-8081A** | 1.0 | | 1 |
| **4,4'-DDE** | **0.0011** | **mg/kg** | **0.00050** | **0.000083** | **EPA-8081A** | 1.0 | | 1 |
| **4,4'-DDT** | **0.0011** | **mg/kg** | **0.00050** | **0.000078** | **EPA-8081A** | 1.0 | | 1 |
| **Dieldrin** | **0.0015** | **mg/kg** | **0.00050** | **0.000070** | **EPA-8081A** | 8.0 | | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 77.8 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 58.1 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/12/16 | 08/15/16 18:12 | HKS | GC-17 | 1.014 | BZH1313 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-44 | **Client Sample Name:** SB37-00, 8/1/2016 2:32:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **17** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **17** | **mg/kg** | **5.0** | **0.56** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 16:22 | JCC | PE-OP3 | 1.923 | BZH0820 |

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Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-45 | **Client Sample Name:** SB37-12, 8/1/2016 2:36:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **4.4** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/02/16 | 09/02/16 13:20 | JRG | PE-OP2 | 0.952 | BZI0165 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-47 | **Client Sample Name:** SB38-00, 8/2/2016 8:00:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0010 | 0.00013 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0010 | 0.00012 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0010 | 0.000068 | EPA-8081A | 4.0 | A10 | 1 |
| **Chlordane (Technical)** | **0.24** | **mg/kg** | **0.10** | **0.0030** | **EPA-8081A** | 2.5 | **A10** | 1 |
| **4,4'-DDD** | **0.0091** | **mg/kg** | **0.0010** | **0.00017** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **4,4'-DDE** | **0.00043** | **mg/kg** | **0.0010** | **0.00017** | **EPA-8081A** | 1.0 | **J,A10** | 1 |
| **4,4'-DDT** | **0.0025** | **mg/kg** | **0.0010** | **0.00016** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **Dieldrin** | **0.0031** | **mg/kg** | **0.0010** | **0.00014** | **EPA-8081A** | 8.0 | **A10** | 1 |
| Endosulfan I | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0010 | 0.00020 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0010 | 0.00019 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 4.7 | A10 | 1 |
| **Heptachlor epoxide** | **0.0031** | **mg/kg** | **0.0010** | **0.00016** | **EPA-8081A** | | **A10** | 1 |
| Methoxychlor | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.10 | 0.0026 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 74.7 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 66.7 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/12/16 | 08/15/16 18:26 | HKS | GC-17 | 2.027 | BZH1313 |

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Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-47 | **Client Sample Name:** SB38-00, 8/2/2016 8:00:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **6.6** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **44** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 16:23 | JCC | PE-OP3 | 0.971 | BZH0820 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-50 | **Client Sample Name:** SB39-00, 8/2/2016 8:28:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.050 | 0.0015 | EPA-8081A | 2.5 | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.00050 | 0.000085 | EPA-8081A | 1.0 | | 1 |
| **4,4'-DDE** | **0.0016** | **mg/kg** | **0.00050** | **0.000083** | **EPA-8081A** | 1.0 | | 1 |
| **4,4'-DDT** | **0.0015** | **mg/kg** | **0.00050** | **0.000078** | **EPA-8081A** | 1.0 | | 1 |
| Dieldrin | ND | mg/kg | 0.00050 | 0.000070 | EPA-8081A | 8.0 | | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 77.2 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 68.8 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/12/16 | 08/15/16 18:41 | HKS | GC-17 | 1.007 | BZH1313 |

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Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-50 | **Client Sample Name:** SB39-00, 8/2/2016 8:28:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **4.7** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **21** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 16:24 | JCC | PE-OP3 | 0.990 | BZH0820 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-53 | **Client Sample Name:** SB40-00, 8/2/2016 7:20:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| **Chlordane (Technical)** | **0.070** | **mg/kg** | **0.050** | **0.0015** | **EPA-8081A** | 2.5 | | 1 |
| **4,4'-DDD** | **0.0016** | **mg/kg** | **0.00050** | **0.000085** | **EPA-8081A** | 1.0 | | 1 |
| **4,4'-DDE** | **0.00019** | **mg/kg** | **0.00050** | **0.000083** | **EPA-8081A** | 1.0 | **J** | 1 |
| 4,4'-DDT | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | 1.0 | | 1 |
| **Dieldrin** | **0.00056** | **mg/kg** | **0.00050** | **0.000070** | **EPA-8081A** | 8.0 | | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 75.6 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 75.7 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/12/16 | 08/15/16 18:55 | HKS | GC-17 | 1.007 | BZH1313 |

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Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# PCB Analysis (EPA Method 8082)

**BCL Sample ID:** 1621629-53 | **Client Sample Name:** SB40-00, 8/2/2016 7:20:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | mg/kg | 0.010 | 0.0039 | EPA-8082 | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 0.010 | 0.0072 | EPA-8082 | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 0.010 | 0.0074 | EPA-8082 | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 0.010 | 0.0042 | EPA-8082 | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 0.010 | 0.0070 | EPA-8082 | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 0.010 | 0.0032 | EPA-8082 | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 0.010 | 0.0029 | EPA-8082 | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 0.010 | 0.0050 | EPA-8082 | 50 | | 1 |
| Decachlorobiphenyl (Surrogate) | 63.3 | % | 40 - 120 (LCL - UCL) | | EPA-8082 | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8082 | 08/10/16 | 08/11/16 13:54 | HKS | GC-15 | 1.003 | BZH1085 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-53 | **Client Sample Name:** SB40-00, 8/2/2016 7:20:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **7.6** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **13** | **mg/kg** | **5.0** | **0.56** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 16:26 | JCC | PE-OP3 | 1.961 | BZH0820 |

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Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-56 | **Client Sample Name:** SB41-00, 8/2/2016 10:34:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.050 | 0.0015 | EPA-8081A | 2.5 | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.00050 | 0.000085 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.00050 | 0.000083 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | 1.0 | | 1 |
| Dieldrin | ND | mg/kg | 0.00050 | 0.000070 | EPA-8081A | 8.0 | | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 65.0 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 64.3 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/12/16 | 08/15/16 19:10 | HKS | GC-17 | 1.003 | BZH1313 |

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Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-56 | **Client Sample Name:** SB41-00, 8/2/2016 10:34:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **12** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **13** | **mg/kg** | **12** | **1.4** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 16:27 | JCC | PE-OP3 | 4.808 | BZH0820 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-57 | **Client Sample Name:** SB41-12, 8/2/2016 10:38:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **8.0** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/02/16 | 09/02/16 13:22 | JRG | PE-OP2 | 0.926 | BZI0165 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-59 | **Client Sample Name:** SB42-00, 8/2/2016 9:17:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.050 | 0.0015 | EPA-8081A | 2.5 | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.00050 | 0.000085 | EPA-8081A | 1.0 | | 1 |
| **4,4'-DDE** | **0.0014** | **mg/kg** | **0.00050** | **0.000083** | **EPA-8081A** | 1.0 | | 1 |
| **4,4'-DDT** | **0.00035** | **mg/kg** | **0.00050** | **0.000078** | **EPA-8081A** | 1.0 | **J** | 1 |
| Dieldrin | ND | mg/kg | 0.00050 | 0.000070 | EPA-8081A | 8.0 | | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 76.5 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 76.8 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/12/16 00:11 | HKS | GC-17 | 1.014 | BZH1163 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-59 | **Client Sample Name:** SB42-00, 8/2/2016 9:17:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **3.9** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **4.0** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/09/16 12:51 | JCC | PE-OP3 | 1 | BZH0821 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-62 | **Client Sample Name:** SB43-00, 8/2/2016 9:45:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| **Chlordane (Technical)** | **0.0087** | **mg/kg** | **0.050** | **0.0015** | **EPA-8081A** | 2.5 | **J** | 1 |
| **4,4'-DDD** | **0.00034** | **mg/kg** | **0.00050** | **0.000085** | **EPA-8081A** | 1.0 | **J** | 1 |
| **4,4'-DDE** | **0.0025** | **mg/kg** | **0.00050** | **0.000083** | **EPA-8081A** | 1.0 | | 1 |
| **4,4'-DDT** | **0.00044** | **mg/kg** | **0.00050** | **0.000078** | **EPA-8081A** | 1.0 | **J** | 1 |
| **Dieldrin** | **0.00024** | **mg/kg** | **0.00050** | **0.000070** | **EPA-8081A** | 8.0 | **J** | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 63.3 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 53.4 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/13/16 01:44 | HKS | GC-17 | 1.007 | BZH1163 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-62 | **Client Sample Name:** SB43-00, 8/2/2016 9:45:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **9.6** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **7.1** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/09/16 13:00 | JCC | PE-OP3 | 0.990 | BZH0821 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-65 | **Client Sample Name:** SB44-00, 8/2/2016 10:16:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| **Chlordane (Technical)** | **0.081** | **mg/kg** | **0.050** | **0.0015** | **EPA-8081A** | 2.5 | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.00050 | 0.000085 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.00050 | 0.000083 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | 1.0 | | 1 |
| Dieldrin | ND | mg/kg | 0.00050 | 0.000070 | EPA-8081A | 8.0 | | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 72.8 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 63.5 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/12/16 01:53 | HKS | GC-17 | 1.003 | BZH1163 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-65 | **Client Sample Name:** SB44-00, 8/2/2016 10:16:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **17** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **11** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/11/16 16:49 | JCC | PE-OP3 | 0.990 | BZH0821 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-66 | **Client Sample Name:** SB44-12, 8/2/2016 10:20:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **8.2** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/02/16 | 09/02/16 13:23 | JRG | PE-OP2 | 0.943 | BZI0165 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-68 | **Client Sample Name:** SB45-00, 8/2/2016 9:00:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.050 | 0.0015 | EPA-8081A | 2.5 | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.00050 | 0.000085 | EPA-8081A | 1.0 | | 1 |
| **4,4'-DDE** | **0.0047** | **mg/kg** | **0.00050** | **0.000083** | **EPA-8081A** | 1.0 | | 1 |
| **4,4'-DDT** | **0.0037** | **mg/kg** | **0.00050** | **0.000078** | **EPA-8081A** | 1.0 | | 1 |
| Dieldrin | ND | mg/kg | 0.00050 | 0.000070 | EPA-8081A | 8.0 | | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 66.1 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 63.0 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/12/16 00:26 | HKS | GC-17 | 1.010 | BZH1163 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-68 | **Client Sample Name:** SB45-00, 8/2/2016 9:00:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **4.3** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **4.9** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/09/16 13:09 | JCC | PE-OP3 | 0.962 | BZH0821 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-71 | **Client Sample Name:** SB46-00, 8/2/2016 11:56:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0050 | 0.00055 | EPA-8081A | 1.4 | A10 | 1 |
| **alpha-BHC** | **0.0061** | **mg/kg** | **0.0050** | **0.00064** | **EPA-8081A** | | **A10** | 1 |
| beta-BHC | ND | mg/kg | 0.0050 | 0.00071 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0050 | 0.00059 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0050 | 0.00034 | EPA-8081A | 4.0 | A10 | 1 |
| **Chlordane (Technical)** | **0.86** | **mg/kg** | **0.50** | **0.015** | **EPA-8081A** | 2.5 | **A10** | 1 |
| **4,4'-DDD** | **0.0045** | **mg/kg** | **0.0050** | **0.00085** | **EPA-8081A** | 1.0 | **J,A10** | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0050 | 0.00083 | EPA-8081A | 1.0 | A10 | 1 |
| **4,4'-DDT** | **0.010** | **mg/kg** | **0.0050** | **0.00078** | **EPA-8081A** | 1.0 | **A10** | 1 |
| Dieldrin | ND | mg/kg | 0.0050 | 0.00070 | EPA-8081A | 8.0 | A10 | 1 |
| Endosulfan I | ND | mg/kg | 0.0050 | 0.00087 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0050 | 0.0011 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0050 | 0.00099 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0050 | 0.00087 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0050 | 0.00097 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0050 | 0.00057 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0050 | 0.00078 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0050 | 0.0011 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.50 | 0.013 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 68.9 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 56.2 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/12/16 05:02 | HKS | GC-17 | 10.101 | BZH1163 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-71 | **Client Sample Name:** SB46-00, 8/2/2016 11:56:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **23** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **180** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/09/16 13:10 | JCC | PE-OP3 | 1 | BZH0821 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-72 | **Client Sample Name:** SB46-12, 8/2/2016 12:04:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | S05 | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | S05 | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | S05 | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | S05 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | S05 | 1 |
| **Chlordane (Technical)** | **0.081** | **mg/kg** | **0.050** | **0.0015** | **EPA-8081A** | 2.5 | **S05** | 1 |
| 4,4'-DDD | ND | mg/kg | 0.00050 | 0.000085 | EPA-8081A | 1.0 | S05 | 1 |
| 4,4'-DDE | ND | mg/kg | 0.00050 | 0.000083 | EPA-8081A | 1.0 | S05 | 1 |
| 4,4'-DDT | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | 1.0 | S05 | 1 |
| Dieldrin | ND | mg/kg | 0.00050 | 0.000070 | EPA-8081A | 8.0 | S05 | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | S05 | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | S05 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | S05 | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | S05 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | S05 | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | S05 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | S05 | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | S05 | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | S05 | 1 |
| TCMX (Surrogate) | 53.5 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | S05 | 1 |
| Decachlorobiphenyl (Surrogate) | 39.8 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | S05 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/01/16 | 09/02/16 17:15 | HKS | GC-17 | 1.010 | BZI0339 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-72 | **Client Sample Name:** SB46-12, 8/2/2016 12:04:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **7.2** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **80** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/02/16 | 09/02/16 13:37 | JRG | PE-OP2 | 0.935 | BZI0165 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-73 | **Client Sample Name:** SB46-24, 8/2/2016 12:07:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **5.6** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/16/16 | 11/17/16 12:58 | JCC | PE-OP3 | 0.980 | BZK1606 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-74 | **Client Sample Name:** SB47-00, 8/2/2016 11:55:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.050 | 0.0015 | EPA-8081A | 2.5 | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.00050 | 0.000085 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.00050 | 0.000083 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | 1.0 | | 1 |
| Dieldrin | ND | mg/kg | 0.00050 | 0.000070 | EPA-8081A | 8.0 | | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 57.3 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 51.8 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/12/16 01:09 | HKS | GC-17 | 1.003 | BZH1163 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-74 | **Client Sample Name:** SB47-00, 8/2/2016 11:55:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **16** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **4.9** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/09/16 13:12 | JCC | PE-OP3 | 0.990 | BZH0821 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-75 | **Client Sample Name:** SB47-12, 8/2/2016 12:00:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **11** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/02/16 | 09/02/16 13:38 | JRG | PE-OP2 | 0.962 | BZI0165 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-76 | **Client Sample Name:** SB48-00, 8/2/2016 12:30:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0050 | 0.00055 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0050 | 0.00064 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0050 | 0.00071 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0050 | 0.00059 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0050 | 0.00034 | EPA-8081A | 4.0 | A10 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.50 | 0.015 | EPA-8081A | 2.5 | A10 | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0050 | 0.00085 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0050 | 0.00083 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0050 | 0.00078 | EPA-8081A | 1.0 | A10 | 1 |
| Dieldrin | ND | mg/kg | 0.0050 | 0.00070 | EPA-8081A | 8.0 | A10 | 1 |
| Endosulfan I | ND | mg/kg | 0.0050 | 0.00087 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0050 | 0.0011 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0050 | 0.00099 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0050 | 0.00087 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0050 | 0.00097 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0050 | 0.00057 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0050 | 0.00078 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0050 | 0.0011 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.50 | 0.013 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 39.5 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 43.6 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/12/16 05:31 | HKS | GC-17 | 10.067 | BZH1163 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# PCB Analysis (EPA Method 8082)

**BCL Sample ID:** 1621629-76 | **Client Sample Name:** SB48-00, 8/2/2016 12:30:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | mg/kg | 0.010 | 0.0039 | EPA-8082 | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 0.010 | 0.0072 | EPA-8082 | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 0.010 | 0.0074 | EPA-8082 | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 0.010 | 0.0042 | EPA-8082 | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 0.010 | 0.0070 | EPA-8082 | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 0.010 | 0.0032 | EPA-8082 | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 0.010 | 0.0029 | EPA-8082 | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 0.010 | 0.0050 | EPA-8082 | 50 | | 1 |
| Decachlorobiphenyl (Surrogate) | 53.3 | % | 40 - 120 (LCL - UCL) | | EPA-8082 | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8082 | 08/10/16 | 08/11/16 14:05 | HKS | GC-15 | 1.017 | BZH1085 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

**BCL Sample ID:** 1621629-76 | **Client Sample Name:** SB48-00, 8/2/2016 12:30:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.0045 | 0.0012 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0045 | 0.0012 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0045 | 0.00082 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0045 | 0.00075 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0045 | 0.0013 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0045 | 0.0014 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0045 | 0.0013 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0045 | 0.0011 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0045 | 0.0011 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0045 | 0.00098 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0045 | 0.0012 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0045 | 0.0012 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0045 | 0.00056 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0045 | 0.0012 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0045 | 0.0016 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0045 | 0.0012 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0045 | 0.00088 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0045 | 0.0015 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0045 | 0.00089 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0045 | 0.0016 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0045 | 0.00072 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0045 | 0.0012 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0045 | 0.0013 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0045 | 0.0012 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0045 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0045 | 0.00076 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0045 | 0.0011 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0045 | 0.0012 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0045 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0045 | 0.00072 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0045 | 0.00098 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0045 | 0.0012 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0045 | 0.0011 | EPA-8260B | | | 1 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

**BCL Sample ID:** 1621629-76 | **Client Sample Name:** SB48-00, 8/2/2016 12:30:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0045 | 0.00098 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0045 | 0.0011 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0045 | 0.0013 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0045 | 0.0015 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0045 | 0.0012 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0045 | 0.0012 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.0089 | 0.0021 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0045 | 0.00045 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0045 | 0.0012 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0045 | 0.0012 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0045 | 0.0012 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0045 | 0.00098 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0045 | 0.00098 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0045 | 0.0012 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0045 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0045 | 0.0019 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0045 | 0.0018 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0045 | 0.00098 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0045 | 0.00069 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0045 | 0.00098 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0045 | 0.00098 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0045 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0045 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0045 | 0.0012 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0045 | 0.0013 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0045 | 0.0014 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.0089 | 0.0030 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0045 | 0.0020 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0045 | 0.0011 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 116 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 99.8 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 93.4 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

**BCL Sample ID:** 1621629-76 | **Client Sample Name:** SB48-00, 8/2/2016 12:30:00PM

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 08/09/16 | 08/09/16 12:52 | ADC | MS-V2 | 0.893 | BZH0683 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Petroleum Hydrocarbons

**BCL Sample ID:** 1621629-76 | **Client Sample Name:** SB48-00, 8/2/2016 12:30:00PM

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| **TPH - Motor Oil** | **40** | **mg/kg** | **20** | **6.5** | **EPA-8015B/FFP** | ND | | 1 |
| Tetracosane (Surrogate) | 50.6 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8015B/FFP | 08/10/16 | 08/11/16 12:12 | AS1 | GC-13 | 1 | BZH1073 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-76 | **Client Sample Name:** SB48-00, 8/2/2016 12:30:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **5.9** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **20** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/09/16 13:13 | JCC | PE-OP3 | 0.980 | BZH0821 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-77 | **Client Sample Name:** SB48-12, 8/2/2016 12:37:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.050 | 0.0015 | EPA-8081A | 2.5 | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.00050 | 0.000085 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.00050 | 0.000083 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | 1.0 | | 1 |
| Dieldrin | ND | mg/kg | 0.00050 | 0.000070 | EPA-8081A | 8.0 | | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 75.4 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 58.7 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/12/16 02:07 | HKS | GC-17 | 1 | BZH1163 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# PCB Analysis (EPA Method 8082)

**BCL Sample ID:** 1621629-77 | **Client Sample Name:** SB48-12, 8/2/2016 12:37:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | mg/kg | 0.010 | 0.0039 | EPA-8082 | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 0.010 | 0.0072 | EPA-8082 | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 0.010 | 0.0074 | EPA-8082 | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 0.010 | 0.0042 | EPA-8082 | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 0.010 | 0.0070 | EPA-8082 | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 0.010 | 0.0032 | EPA-8082 | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 0.010 | 0.0029 | EPA-8082 | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 0.010 | 0.0050 | EPA-8082 | 50 | | 1 |
| Decachlorobiphenyl (Surrogate) | 73.3 | % | 40 - 120 (LCL - UCL) | | EPA-8082 | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8082 | 08/11/16 | 08/11/16 15:40 | HKS | GC-15 | 1 | BZH1166 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

**BCL Sample ID:** 1621629-77 | **Client Sample Name:** SB48-12, 8/2/2016 12:37:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

**BCL Sample ID:** 1621629-77 | **Client Sample Name:** SB48-12, 8/2/2016 12:37:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 123 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | A19,S09 | 1 |
| Toluene-d8 (Surrogate) | 101 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 92.2 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

**BCL Sample ID:** 1621629-77 | **Client Sample Name:** SB48-12, 8/2/2016 12:37:00PM

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 08/09/16 | 08/09/16 13:14 | ADC | MS-V2 | 0.978 | BZH0683 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Petroleum Hydrocarbons

**BCL Sample ID:** 1621629-77 | **Client Sample Name:** SB48-12, 8/2/2016 12:37:00PM

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| **TPH - Motor Oil** | **17** | **mg/kg** | **20** | **6.5** | **EPA-8015B/FFP** | ND | **J,A57** | 1 |
| Tetracosane (Surrogate) | 75.5 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8015B/FFP | 08/11/16 | 08/12/16 10:19 | AS1 | GC-13 | 1.017 | BZH1209 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-77 | **Client Sample Name:** SB48-12, 8/2/2016 12:37:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **5.7** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **8.7** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/10/16 13:43 | JCC | PE-OP3 | 1 | BZH0930 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-78 | **Client Sample Name:** SB48-24, 8/2/2016 12:45:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.050 | 0.0015 | EPA-8081A | 2.5 | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.00050 | 0.000085 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.00050 | 0.000083 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | 1.0 | | 1 |
| Dieldrin | ND | mg/kg | 0.00050 | 0.000070 | EPA-8081A | 8.0 | | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 91.8 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 57.8 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/13/16 01:59 | HKS | GC-17 | 1.007 | BZH1163 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# PCB Analysis (EPA Method 8082)

**BCL Sample ID:** 1621629-78 | **Client Sample Name:** SB48-24, 8/2/2016 12:45:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | mg/kg | 0.010 | 0.0039 | EPA-8082 | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 0.010 | 0.0072 | EPA-8082 | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 0.010 | 0.0074 | EPA-8082 | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 0.010 | 0.0042 | EPA-8082 | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 0.010 | 0.0070 | EPA-8082 | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 0.010 | 0.0032 | EPA-8082 | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 0.010 | 0.0029 | EPA-8082 | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 0.010 | 0.0050 | EPA-8082 | 50 | | 1 |
| Decachlorobiphenyl (Surrogate) | 75.0 | % | 40 - 120 (LCL - UCL) | | EPA-8082 | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8082 | 08/11/16 | 08/11/16 15:50 | HKS | GC-15 | 1.017 | BZH1166 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

**BCL Sample ID:** 1621629-78 | **Client Sample Name:** SB48-24, 8/2/2016 12:45:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

**BCL Sample ID:** 1621629-78 | **Client Sample Name:** SB48-24, 8/2/2016 12:45:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 122 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | A19,S09 | 1 |
| Toluene-d8 (Surrogate) | 103 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 93.4 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

**BCL Sample ID:** 1621629-78 | **Client Sample Name:** SB48-24, 8/2/2016 12:45:00PM

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 08/09/16 | 08/09/16 13:37 | ADC | MS-V2 | 0.924 | BZH0683 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Petroleum Hydrocarbons

**BCL Sample ID:** 1621629-78 | **Client Sample Name:** SB48-24, 8/2/2016 12:45:00PM

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 71.3 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8015B/FFP | 08/11/16 | 08/12/16 10:44 | AS1 | GC-13 | 1.003 | BZH1209 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-78 | **Client Sample Name:** SB48-24, 8/2/2016 12:45:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **6.1** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **12** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/10/16 13:52 | JCC | PE-OP3 | 0.971 | BZH0930 |

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E2 Managetech
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Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-79 | **Client Sample Name:** SB48-48, 8/2/2016 1:13:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.050 | 0.0015 | EPA-8081A | 2.5 | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.00050 | 0.000085 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.00050 | 0.000083 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | 1.0 | | 1 |
| Dieldrin | ND | mg/kg | 0.00050 | 0.000070 | EPA-8081A | 8.0 | | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 84.2 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 76.5 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/12/16 00:40 | HKS | GC-17 | 1.014 | BZH1163 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# PCB Analysis (EPA Method 8082)

**BCL Sample ID:** 1621629-79 | **Client Sample Name:** SB48-48, 8/2/2016 1:13:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | mg/kg | 0.010 | 0.0039 | EPA-8082 | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 0.010 | 0.0072 | EPA-8082 | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 0.010 | 0.0074 | EPA-8082 | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 0.010 | 0.0042 | EPA-8082 | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 0.010 | 0.0070 | EPA-8082 | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 0.010 | 0.0032 | EPA-8082 | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 0.010 | 0.0029 | EPA-8082 | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 0.010 | 0.0050 | EPA-8082 | 50 | | 1 |
| Decachlorobiphenyl (Surrogate) | 73.3 | % | 40 - 120 (LCL - UCL) | | EPA-8082 | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8082 | 08/11/16 | 08/11/16 16:01 | HKS | GC-15 | 0.984 | BZH1166 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

**BCL Sample ID:** 1621629-79 | **Client Sample Name:** SB48-48, 8/2/2016 1:13:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.0041 | 0.0011 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0041 | 0.0011 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0041 | 0.00076 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0041 | 0.00069 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0041 | 0.0012 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0041 | 0.0013 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0041 | 0.0012 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0041 | 0.00099 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0041 | 0.00099 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0041 | 0.00091 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0041 | 0.0011 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0041 | 0.0012 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0041 | 0.00052 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0041 | 0.0012 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0041 | 0.0015 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0041 | 0.0012 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0041 | 0.00082 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0041 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0041 | 0.00083 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0041 | 0.0015 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0041 | 0.00067 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0041 | 0.0012 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0041 | 0.0012 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0041 | 0.0011 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0041 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0041 | 0.00070 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0041 | 0.00099 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0041 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0041 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0041 | 0.00067 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0041 | 0.00091 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0041 | 0.0011 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0041 | 0.00099 | EPA-8260B | | | 1 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

**BCL Sample ID:** 1621629-79 | **Client Sample Name:** SB48-48, 8/2/2016 1:13:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0041 | 0.00091 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0041 | 0.00099 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0041 | 0.0012 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0041 | 0.0014 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0041 | 0.0011 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0041 | 0.0011 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.0083 | 0.0020 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0041 | 0.00041 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0041 | 0.0012 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0041 | 0.0011 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0041 | 0.0012 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0041 | 0.00091 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0041 | 0.00091 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0041 | 0.0011 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0041 | 0.00099 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0041 | 0.0017 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0041 | 0.0017 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0041 | 0.00091 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0041 | 0.00064 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0041 | 0.00091 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0041 | 0.00091 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0041 | 0.0013 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0041 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0041 | 0.0011 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0041 | 0.0012 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0041 | 0.0013 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.0083 | 0.0028 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0041 | 0.0018 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0041 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 123 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | A19,S09 | 1 |
| Toluene-d8 (Surrogate) | 102 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 91.3 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

**BCL Sample ID:** 1621629-79 | **Client Sample Name:** SB48-48, 8/2/2016 1:13:00PM

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 08/09/16 | 08/09/16 14:00 | ADC | MS-V2 | 0.825 | BZH0683 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Petroleum Hydrocarbons

**BCL Sample ID:** 1621629-79 | **Client Sample Name:** SB48-48, 8/2/2016 1:13:00PM

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| **TPH - Motor Oil** | **15** | **mg/kg** | **20** | **6.5** | **EPA-8015B/FFP** | ND | **J,A57** | 1 |
| Tetracosane (Surrogate) | 81.3 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8015B/FFP | 08/11/16 | 08/12/16 12:32 | AS1 | GC-13 | 0.993 | BZH1209 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-79 | **Client Sample Name:** SB48-48, 8/2/2016 1:13:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **5.1** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **4.1** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/10/16 13:58 | JCC | PE-OP3 | 0.943 | BZH0930 |

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E2 Managetech
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Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1621629-80 | **Client Sample Name:** SB48-96, 8/2/2016 1:46:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.050 | 0.0015 | EPA-8081A | 2.5 | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.00050 | 0.000085 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.00050 | 0.000083 | EPA-8081A | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | 1.0 | | 1 |
| Dieldrin | ND | mg/kg | 0.00050 | 0.000070 | EPA-8081A | 8.0 | | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 87.2 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 69.8 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 08/10/16 | 08/12/16 00:55 | HKS | GC-17 | 1.003 | BZH1163 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# PCB Analysis (EPA Method 8082)

**BCL Sample ID:** 1621629-80 | **Client Sample Name:** SB48-96, 8/2/2016 1:46:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | mg/kg | 0.010 | 0.0039 | EPA-8082 | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 0.010 | 0.0072 | EPA-8082 | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 0.010 | 0.0074 | EPA-8082 | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 0.010 | 0.0042 | EPA-8082 | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 0.010 | 0.0070 | EPA-8082 | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 0.010 | 0.0032 | EPA-8082 | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 0.010 | 0.0029 | EPA-8082 | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 0.010 | 0.0050 | EPA-8082 | 50 | | 1 |
| Decachlorobiphenyl (Surrogate) | 66.7 | % | 40 - 120 (LCL - UCL) | | EPA-8082 | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8082 | 08/11/16 | 08/11/16 16:11 | HKS | GC-15 | 1.017 | BZH1166 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

**BCL Sample ID:** 1621629-80 | **Client Sample Name:** SB48-96, 8/2/2016 1:46:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.0043 | 0.0011 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0043 | 0.0011 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0043 | 0.00079 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0043 | 0.00072 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0043 | 0.0013 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0043 | 0.0014 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0043 | 0.0013 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0043 | 0.0010 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0043 | 0.0010 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0043 | 0.00094 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0043 | 0.0011 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0043 | 0.0012 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0043 | 0.00054 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0043 | 0.0012 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0043 | 0.0015 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0043 | 0.0012 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0043 | 0.00085 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0043 | 0.0015 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0043 | 0.00085 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0043 | 0.0015 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0043 | 0.00069 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0043 | 0.0012 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0043 | 0.0013 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0043 | 0.0011 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0043 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0043 | 0.00073 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0043 | 0.0010 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0043 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0043 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0043 | 0.00069 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0043 | 0.00094 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0043 | 0.0011 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0043 | 0.0010 | EPA-8260B | | | 1 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

**BCL Sample ID:** 1621629-80 | **Client Sample Name:** SB48-96, 8/2/2016 1:46:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0043 | 0.00094 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0043 | 0.0010 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0043 | 0.0013 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0043 | 0.0015 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0043 | 0.0011 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0043 | 0.0011 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.0085 | 0.0021 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0043 | 0.00043 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0043 | 0.0012 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0043 | 0.0011 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0043 | 0.0012 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0043 | 0.00094 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0043 | 0.00094 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0043 | 0.0011 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0043 | 0.0010 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0043 | 0.0018 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0043 | 0.0017 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0043 | 0.00094 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0043 | 0.00066 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0043 | 0.00094 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0043 | 0.00094 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0043 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0043 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0043 | 0.0011 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0043 | 0.0013 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0043 | 0.0014 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.0085 | 0.0029 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0043 | 0.0019 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0043 | 0.0010 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 121 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 103 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 96.6 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

**BCL Sample ID:** 1621629-80 | **Client Sample Name:** SB48-96, 8/2/2016 1:46:00PM

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 08/09/16 | 08/09/16 14:22 | ADC | MS-V2 | 0.855 | BZH0683 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Petroleum Hydrocarbons

**BCL Sample ID:** 1621629-80 | **Client Sample Name:** SB48-96, 8/2/2016 1:46:00PM

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 79.1 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8015B/FFP | 08/11/16 | 08/12/16 11:29 | AS1 | GC-13 | 0.990 | BZH1209 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-80 | **Client Sample Name:** SB48-96, 8/2/2016 1:46:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **3.9** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **2.0** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | **J** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/10/16 13:59 | JCC | PE-OP3 | 0.990 | BZH0930 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# PCB Analysis (EPA Method 8082)

**BCL Sample ID:** 1621629-81 | **Client Sample Name:** SB49-48, 8/2/2016 12:45:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | mg/kg | 0.010 | 0.0039 | EPA-8082 | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 0.010 | 0.0072 | EPA-8082 | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 0.010 | 0.0074 | EPA-8082 | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 0.010 | 0.0042 | EPA-8082 | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 0.010 | 0.0070 | EPA-8082 | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 0.010 | 0.0032 | EPA-8082 | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 0.010 | 0.0029 | EPA-8082 | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 0.010 | 0.0050 | EPA-8082 | 50 | | 1 |
| Decachlorobiphenyl (Surrogate) | 81.7 | % | 40 - 120 (LCL - UCL) | | EPA-8082 | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8082 | 08/11/16 | 08/11/16 16:22 | HKS | GC-15 | 0.997 | BZH1166 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

**BCL Sample ID:** 1621629-81 | **Client Sample Name:** SB49-48, 8/2/2016 12:45:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

**BCL Sample ID:** 1621629-81 | **Client Sample Name:** SB49-48, 8/2/2016 12:45:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 124 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | A19,S09 | 1 |
| Toluene-d8 (Surrogate) | 103 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 97.6 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

**BCL Sample ID:** 1621629-81 | **Client Sample Name:** SB49-48, 8/2/2016 12:45:00PM

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 08/09/16 | 08/09/16 14:45 | ADC | MS-V2 | 1.025 | BZH0683 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Petroleum Hydrocarbons

**BCL Sample ID:** 1621629-81 | **Client Sample Name:** SB49-48, 8/2/2016 12:45:00PM

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 57.1 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8015B/FFP | 08/11/16 | 08/15/16 21:23 | AS1 | GC-13 | 1.010 | BZH1210 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# PCB Analysis (EPA Method 8082)

**BCL Sample ID:** 1621629-82 | **Client Sample Name:** SB49-96, 8/2/2016 1:20:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | mg/kg | 0.010 | 0.0039 | EPA-8082 | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 0.010 | 0.0072 | EPA-8082 | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 0.010 | 0.0074 | EPA-8082 | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 0.010 | 0.0042 | EPA-8082 | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 0.010 | 0.0070 | EPA-8082 | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 0.010 | 0.0032 | EPA-8082 | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 0.010 | 0.0029 | EPA-8082 | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 0.010 | 0.0050 | EPA-8082 | 50 | | 1 |
| Decachlorobiphenyl (Surrogate) | 75.0 | % | 40 - 120 (LCL - UCL) | | EPA-8082 | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8082 | 08/11/16 | 08/11/16 17:04 | HKS | GC-15 | 1.003 | BZH1166 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

**BCL Sample ID:** 1621629-82 | **Client Sample Name:** SB49-96, 8/2/2016 1:20:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

**BCL Sample ID:** 1621629-82 | **Client Sample Name:** SB49-96, 8/2/2016 1:20:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 123 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | A19,S09 | 1 |
| Toluene-d8 (Surrogate) | 104 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 96.5 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

**BCL Sample ID:** 1621629-82 | **Client Sample Name:** SB49-96, 8/2/2016 1:20:00PM

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8260B | 08/09/16 | 08/09/16 15:07 | ADC | MS-V2 | 1.002 | BZH0683 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Petroleum Hydrocarbons

**BCL Sample ID:** 1621629-82 | **Client Sample Name:** SB49-96, 8/2/2016 1:20:00PM

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 66.2 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8015B/FFP | 08/11/16 | 08/16/16 01:34 | AS1 | GC-13 | 1.007 | BZH1210 |

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**Reported:** 11/18/2016 16:01
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# Total Concentrations (TTLC)

**BCL Sample ID:** 1621629-82 | **Client Sample Name:** SB49-96, 8/2/2016 1:20:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **6.5** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **3.3** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 08/09/16 | 08/10/16 14:00 | JCC | PE-OP3 | 0.990 | BZH0930 |

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# PCB Analysis (EPA Method 8082)

**BCL Sample ID:** 1621629-83 | **Client Sample Name:** SB50-00, 8/3/2016 2:24:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | mg/kg | 0.010 | 0.0039 | EPA-8082 | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 0.010 | 0.0072 | EPA-8082 | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 0.010 | 0.0074 | EPA-8082 | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 0.010 | 0.0042 | EPA-8082 | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 0.010 | 0.0070 | EPA-8082 | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 0.010 | 0.0032 | EPA-8082 | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 0.010 | 0.0029 | EPA-8082 | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 0.010 | 0.0050 | EPA-8082 | 50 | | 1 |
| Decachlorobiphenyl (Surrogate) | 75.0 | % | 40 - 120 (LCL - UCL) | | EPA-8082 | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8082 | 08/11/16 | 08/11/16 11:50 | HKS | GC-14 | 1 | BZH1085 |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1163** | | | | | | |
| Aldrin | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000055 | |
| alpha-BHC | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000064 | |
| beta-BHC | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000071 | |
| delta-BHC | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000059 | |
| gamma-BHC (Lindane) | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000034 | |
| Chlordane (Technical) | BZH1163-BLK1 | ND | mg/kg | 0.050 | 0.0015 | |
| 4,4'-DDD | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000085 | |
| 4,4'-DDE | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000083 | |
| 4,4'-DDT | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000078 | |
| Dieldrin | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000070 | |
| Endosulfan I | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000087 | |
| Endosulfan II | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.00011 | |
| Endosulfan sulfate | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000099 | |
| Endrin | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000087 | |
| Endrin aldehyde | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000097 | |
| Heptachlor | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000057 | |
| Heptachlor epoxide | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.000078 | |
| Methoxychlor | BZH1163-BLK1 | ND | mg/kg | 0.00050 | 0.00011 | |
| Toxaphene | BZH1163-BLK1 | ND | mg/kg | 0.050 | 0.0013 | |
| **TCMX (Surrogate)** | **BZH1163-BLK1** | **82.1** | % | **20 - 130 (LCL - UCL)** | | |
| **Decachlorobiphenyl (Surrogate)** | **BZH1163-BLK1** | **59.7** | % | **40 - 130 (LCL - UCL)** | | |
| **QC Batch ID: BZH1313** | | | | | | |
| Aldrin | BZH1313-BLK1 | ND | mg/kg | 0.00050 | 0.000055 | |
| alpha-BHC | BZH1313-BLK1 | ND | mg/kg | 0.00050 | 0.000064 | |
| beta-BHC | BZH1313-BLK1 | ND | mg/kg | 0.00050 | 0.000071 | |
| delta-BHC | BZH1313-BLK1 | ND | mg/kg | 0.00050 | 0.000059 | |
| gamma-BHC (Lindane) | BZH1313-BLK1 | ND | mg/kg | 0.00050 | 0.000034 | |
| Chlordane (Technical) | BZH1313-BLK1 | ND | mg/kg | 0.050 | 0.0015 | |
| 4,4'-DDD | BZH1313-BLK1 | ND | mg/kg | 0.00050 | 0.000085 | |
| 4,4'-DDE | BZH1313-BLK1 | ND | mg/kg | 0.00050 | 0.000083 | |
| 4,4'-DDT | BZH1313-BLK1 | ND | mg/kg | 0.00050 | 0.000078 | |
| Dieldrin | BZH1313-BLK1 | ND | mg/kg | 0.00050 | 0.000070 | |
| Endosulfan I | BZH1313-BLK1 | ND | mg/kg | 0.00050 | 0.000087 | |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1313** | | | | | | |
| Endosulfan II | BZH1313-BLK1 | ND | mg/kg | 0.00050 | 0.00011 | |
| Endosulfan sulfate | BZH1313-BLK1 | ND | mg/kg | 0.00050 | 0.000099 | |
| Endrin | BZH1313-BLK1 | ND | mg/kg | 0.00050 | 0.000087 | |
| Endrin aldehyde | BZH1313-BLK1 | ND | mg/kg | 0.00050 | 0.000097 | |
| Heptachlor | BZH1313-BLK1 | ND | mg/kg | 0.00050 | 0.000057 | |
| Heptachlor epoxide | BZH1313-BLK1 | ND | mg/kg | 0.00050 | 0.000078 | |
| Methoxychlor | BZH1313-BLK1 | ND | mg/kg | 0.00050 | 0.00011 | |
| Toxaphene | BZH1313-BLK1 | ND | mg/kg | 0.050 | 0.0013 | |
| **TCMX (Surrogate)** | **BZH1313-BLK1** | **88.2** | % | **20 - 130 (LCL - UCL)** | | |
| **Decachlorobiphenyl (Surrogate)** | **BZH1313-BLK1** | **94.7** | % | **40 - 130 (LCL - UCL)** | | |
| **QC Batch ID: BZI0339** | | | | | | |
| Aldrin | BZI0339-BLK1 | ND | mg/kg | 0.00050 | 0.000055 | |
| alpha-BHC | BZI0339-BLK1 | ND | mg/kg | 0.00050 | 0.000064 | |
| beta-BHC | BZI0339-BLK1 | ND | mg/kg | 0.00050 | 0.000071 | |
| delta-BHC | BZI0339-BLK1 | ND | mg/kg | 0.00050 | 0.000059 | |
| gamma-BHC (Lindane) | BZI0339-BLK1 | ND | mg/kg | 0.00050 | 0.000034 | |
| Chlordane (Technical) | BZI0339-BLK1 | ND | mg/kg | 0.050 | 0.0015 | |
| 4,4'-DDD | BZI0339-BLK1 | ND | mg/kg | 0.00050 | 0.000085 | |
| 4,4'-DDE | BZI0339-BLK1 | ND | mg/kg | 0.00050 | 0.000083 | |
| 4,4'-DDT | BZI0339-BLK1 | ND | mg/kg | 0.00050 | 0.000078 | |
| Dieldrin | BZI0339-BLK1 | ND | mg/kg | 0.00050 | 0.000070 | |
| Endosulfan I | BZI0339-BLK1 | ND | mg/kg | 0.00050 | 0.000087 | |
| Endosulfan II | BZI0339-BLK1 | ND | mg/kg | 0.00050 | 0.00011 | |
| Endosulfan sulfate | BZI0339-BLK1 | ND | mg/kg | 0.00050 | 0.000099 | |
| Endrin | BZI0339-BLK1 | ND | mg/kg | 0.00050 | 0.000087 | |
| Endrin aldehyde | BZI0339-BLK1 | ND | mg/kg | 0.00050 | 0.000097 | |
| Heptachlor | BZI0339-BLK1 | ND | mg/kg | 0.00050 | 0.000057 | |
| Heptachlor epoxide | BZI0339-BLK1 | ND | mg/kg | 0.00050 | 0.000078 | |
| Methoxychlor | BZI0339-BLK1 | ND | mg/kg | 0.00050 | 0.00011 | |
| Toxaphene | BZI0339-BLK1 | ND | mg/kg | 0.050 | 0.0013 | |
| **TCMX (Surrogate)** | **BZI0339-BLK1** | **87.8** | % | **20 - 130 (LCL - UCL)** | | |
| **Decachlorobiphenyl (Surrogate)** | **BZI0339-BLK1** | **85.8** | % | **40 - 130 (LCL - UCL)** | | |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1163** | | | | | | | | | | |
| Aldrin | BZH1163-BS1 | LCS | 0.0052031 | 0.0050847 | mg/kg | 102 | | 70 - 130 | | |
| gamma-BHC (Lindane) | BZH1163-BS1 | LCS | 0.0051997 | 0.0050847 | mg/kg | 102 | | 60 - 140 | | |
| 4,4'-DDT | BZH1163-BS1 | LCS | 0.0052251 | 0.0050847 | mg/kg | 103 | | 60 - 140 | | |
| Dieldrin | BZH1163-BS1 | LCS | 0.0057444 | 0.0050847 | mg/kg | 113 | | 70 - 130 | | |
| Endrin | BZH1163-BS1 | LCS | 0.0058603 | 0.0050847 | mg/kg | 115 | | 60 - 140 | | |
| Heptachlor | BZH1163-BS1 | LCS | 0.0049976 | 0.0050847 | mg/kg | 98.3 | | 60 - 140 | | |
| TCMX (Surrogate) | BZH1163-BS1 | LCS | 0.0099081 | 0.010169 | mg/kg | 97.4 | | 20 - 130 | | |
| Decachlorobiphenyl (Surrogate) | BZH1163-BS1 | LCS | 0.016056 | 0.020339 | mg/kg | 78.9 | | 40 - 130 | | |
| **QC Batch ID: BZH1313** | | | | | | | | | | |
| Aldrin | BZH1313-BS1 | LCS | 0.0041178 | 0.0049505 | mg/kg | 83.2 | | 70 - 130 | | |
| gamma-BHC (Lindane) | BZH1313-BS1 | LCS | 0.0042198 | 0.0049505 | mg/kg | 85.2 | | 60 - 140 | | |
| 4,4'-DDT | BZH1313-BS1 | LCS | 0.0051284 | 0.0049505 | mg/kg | 104 | | 60 - 140 | | |
| Dieldrin | BZH1313-BS1 | LCS | 0.0045419 | 0.0049505 | mg/kg | 91.7 | | 70 - 130 | | |
| Endrin | BZH1313-BS1 | LCS | 0.0049746 | 0.0049505 | mg/kg | 100 | | 60 - 140 | | |
| Heptachlor | BZH1313-BS1 | LCS | 0.0041931 | 0.0049505 | mg/kg | 84.7 | | 60 - 140 | | |
| TCMX (Surrogate) | BZH1313-BS1 | LCS | 0.0082208 | 0.0099010 | mg/kg | 83.0 | | 20 - 130 | | |
| Decachlorobiphenyl (Surrogate) | BZH1313-BS1 | LCS | 0.019132 | 0.019802 | mg/kg | 96.6 | | 40 - 130 | | |
| **QC Batch ID: BZI0339** | | | | | | | | | | |
| Aldrin | BZI0339-BS1 | LCS | 0.0049936 | 0.0050676 | mg/kg | 98.5 | | 70 - 130 | | |
| gamma-BHC (Lindane) | BZI0339-BS1 | LCS | 0.0049943 | 0.0050676 | mg/kg | 98.6 | | 60 - 140 | | |
| 4,4'-DDT | BZI0339-BS1 | LCS | 0.0036014 | 0.0050676 | mg/kg | 71.1 | | 60 - 140 | | |
| Dieldrin | BZI0339-BS1 | LCS | 0.0053618 | 0.0050676 | mg/kg | 106 | | 70 - 130 | | |
| Endrin | BZI0339-BS1 | LCS | 0.0056122 | 0.0050676 | mg/kg | 111 | | 60 - 140 | | |
| Heptachlor | BZI0339-BS1 | LCS | 0.0051324 | 0.0050676 | mg/kg | 101 | | 60 - 140 | | |
| TCMX (Surrogate) | BZI0339-BS1 | LCS | 0.0083916 | 0.010135 | mg/kg | 82.8 | | 20 - 130 | | |
| Decachlorobiphenyl (Surrogate) | BZI0339-BS1 | LCS | 0.017681 | 0.020270 | mg/kg | 87.2 | | 40 - 130 | | |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1163** | Used client sample: N | | | | | | | | | | |
| Aldrin | MS | 1616196-97 | ND | 0.0055010 | 0.0050505 | mg/kg | | 109 | | 50 - 140 | |
| | MSD | 1616196-97 | ND | 0.0054963 | 0.0050167 | mg/kg | 0.1 | 110 | 30 | 50 - 140 | |
| gamma-BHC (Lindane) | MS | 1616196-97 | ND | 0.0054205 | 0.0050505 | mg/kg | | 107 | | 50 - 140 | |
| | MSD | 1616196-97 | ND | 0.0053301 | 0.0050167 | mg/kg | 1.7 | 106 | 30 | 50 - 140 | |
| 4,4'-DDT | MS | 1616196-97 | ND | 0.0042822 | 0.0050505 | mg/kg | | 84.8 | | 50 - 140 | |
| | MSD | 1616196-97 | ND | 0.0051559 | 0.0050167 | mg/kg | 18.5 | 103 | 30 | 50 - 140 | |
| Dieldrin | MS | 1616196-97 | ND | 0.0048360 | 0.0050505 | mg/kg | | 95.8 | | 40 - 140 | |
| | MSD | 1616196-97 | ND | 0.0047946 | 0.0050167 | mg/kg | 0.9 | 95.6 | 30 | 40 - 140 | |
| Endrin | MS | 1616196-97 | ND | 0.0049037 | 0.0050505 | mg/kg | | 97.1 | | 50 - 150 | |
| | MSD | 1616196-97 | ND | 0.0049987 | 0.0050167 | mg/kg | 1.9 | 99.6 | 30 | 50 - 150 | |
| Heptachlor | MS | 1616196-97 | ND | 0.0053572 | 0.0050505 | mg/kg | | 106 | | 60 - 140 | |
| | MSD | 1616196-97 | ND | 0.0052759 | 0.0050167 | mg/kg | 1.5 | 105 | 30 | 60 - 140 | |
| TCMX (Surrogate) | MS | 1616196-97 | ND | 0.0082145 | 0.010101 | mg/kg | | 81.3 | | 20 - 130 | |
| | MSD | 1616196-97 | ND | 0.0083254 | 0.010033 | mg/kg | 1.3 | 83.0 | | 20 - 130 | |
| Decachlorobiphenyl (Surrogate) | MS | 1616196-97 | ND | 0.017217 | 0.020202 | mg/kg | | 85.2 | | 40 - 130 | |
| | MSD | 1616196-97 | ND | 0.017654 | 0.020067 | mg/kg | 2.5 | 88.0 | | 40 - 130 | |
| **QC Batch ID: BZH1313** | Used client sample: Y - Description: SB23-00, 08/01/2016 11:35 | | | | | | | | | | |
| **Aldrin** | MS | **1621629-04** | **ND** | **0.0077525** | **0.0050847** | **mg/kg** | | **152** | | **50 - 140** | **Q03** |
| | MSD | **1621629-04** | **ND** | **0.0048620** | **0.0050505** | **mg/kg** | **45.8** | **96.3** | **30** | **50 - 140** | **Q02** |
| gamma-BHC (Lindane) | MS | 1621629-04 | ND | 0.0046492 | 0.0050847 | mg/kg | | 91.4 | | 50 - 140 | |
| | MSD | 1621629-04 | ND | 0.0046902 | 0.0050505 | mg/kg | 0.9 | 92.9 | 30 | 50 - 140 | Q02 |
| 4,4'-DDT | MS | 1621629-04 | 0.00065940 | 0.0044966 | 0.0050847 | mg/kg | | 75.5 | | 50 - 140 | |
| | MSD | 1621629-04 | 0.00065940 | 0.0048199 | 0.0050505 | mg/kg | 6.9 | 82.4 | 30 | 50 - 140 | Q02 |
| Dieldrin | MS | 1621629-04 | ND | 0.0058254 | 0.0050847 | mg/kg | | 115 | | 40 - 140 | |
| | MSD | 1621629-04 | ND | 0.0052795 | 0.0050505 | mg/kg | 9.8 | 105 | 30 | 40 - 140 | Q02 |
| Endrin | MS | 1621629-04 | ND | 0.0063610 | 0.0050847 | mg/kg | | 125 | | 50 - 150 | |
| | MSD | 1621629-04 | ND | 0.0055387 | 0.0050505 | mg/kg | 13.8 | 110 | 30 | 50 - 150 | Q02 |
| Heptachlor | MS | 1621629-04 | ND | 0.0069407 | 0.0050847 | mg/kg | | 136 | | 60 - 140 | |
| | MSD | 1621629-04 | ND | 0.0051465 | 0.0050505 | mg/kg | 29.7 | 102 | 30 | 60 - 140 | Q02 |
| TCMX (Surrogate) | MS | 1621629-04 | ND | 0.0062661 | 0.010169 | mg/kg | | 61.6 | | 20 - 130 | |
| | MSD | 1621629-04 | ND | 0.0096246 | 0.010101 | mg/kg | 42.3 | 95.3 | | 20 - 130 | |
| Decachlorobiphenyl (Surrogate) | MS | 1621629-04 | ND | 0.021900 | 0.020339 | mg/kg | | 108 | | 40 - 130 | |
| | MSD | 1621629-04 | ND | 0.021158 | 0.020202 | mg/kg | 3.4 | 105 | | 40 - 130 | |
| **QC Batch ID: BZI0339** | Used client sample: N | | | | | | | | | | |
| Aldrin | MS | 1621392-68 | ND | 0.0050199 | 0.0050676 | mg/kg | | 99.1 | | 50 - 140 | |
| | MSD | 1621392-68 | ND | 0.0046948 | 0.0049180 | mg/kg | 6.7 | 95.5 | 30 | 50 - 140 | |

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Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZI0339** | Used client sample: N | | | | | | | | | | |
| gamma-BHC (Lindane) | MS | 1621392-68 | ND | 0.0049757 | 0.0050676 | mg/kg | | 98.2 | | 50 - 140 | |
| | MSD | 1621392-68 | ND | 0.0046643 | 0.0049180 | mg/kg | 6.5 | 94.8 | 30 | 50 - 140 | |
| 4,4'-DDT | MS | 1621392-68 | ND | 0.0038142 | 0.0050676 | mg/kg | | 75.3 | | 50 - 140 | |
| | MSD | 1621392-68 | ND | 0.0037905 | 0.0049180 | mg/kg | 0.6 | 77.1 | 30 | 50 - 140 | |
| Dieldrin | MS | 1621392-68 | ND | 0.0053490 | 0.0050676 | mg/kg | | 106 | | 40 - 140 | |
| | MSD | 1621392-68 | ND | 0.0051246 | 0.0049180 | mg/kg | 4.3 | 104 | 30 | 40 - 140 | |
| Endrin | MS | 1621392-68 | ND | 0.0055848 | 0.0050676 | mg/kg | | 110 | | 50 - 150 | |
| | MSD | 1621392-68 | ND | 0.0052941 | 0.0049180 | mg/kg | 5.3 | 108 | 30 | 50 - 150 | |
| Heptachlor | MS | 1621392-68 | ND | 0.0050564 | 0.0050676 | mg/kg | | 99.8 | | 60 - 140 | |
| | MSD | 1621392-68 | ND | 0.0047826 | 0.0049180 | mg/kg | 5.6 | 97.2 | 30 | 60 - 140 | |
| TCMX (Surrogate) | MS | 1621392-68 | ND | 0.0087456 | 0.010135 | mg/kg | | 86.3 | | 20 - 130 | |
| | MSD | 1621392-68 | ND | 0.0083639 | 0.0098361 | mg/kg | 4.5 | 85.0 | | 20 - 130 | |
| Decachlorobiphenyl (Surrogate) | MS | 1621392-68 | ND | 0.017906 | 0.020270 | mg/kg | | 88.3 | | 40 - 130 | |
| | MSD | 1621392-68 | ND | 0.016936 | 0.019672 | mg/kg | 5.6 | 86.1 | | 40 - 130 | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A) (TCLP Extract)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZI0212** | | | | | | |
| gamma-BHC (Lindane) | BZI0212-BLK1 | ND | mg/L | 0.000050 | 0.0000019 | |
| Chlordane (Technical) | BZI0212-BLK1 | ND | mg/L | 0.0050 | 0.000085 | |
| Endrin | BZI0212-BLK1 | ND | mg/L | 0.000050 | 0.0000033 | |
| Heptachlor | BZI0212-BLK1 | ND | mg/L | 0.000050 | 0.0000032 | |
| Heptachlor epoxide | BZI0212-BLK1 | ND | mg/L | 0.000050 | 0.0000048 | |
| Methoxychlor | BZI0212-BLK1 | ND | mg/L | 0.000050 | 0.0000035 | |
| Toxaphene | BZI0212-BLK1 | ND | mg/L | 0.020 | 0.00020 | |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A) (TCLP Extract)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZI0212** | | | | | | | | | | |
| gamma-BHC (Lindane) | BZI0212-BS1 | LCS | 0.00014860 | 0.00015000 | mg/L | 99.1 | | 60 - 130 | | |
| Endrin | BZI0212-BS1 | LCS | 0.00019307 | 0.00015000 | mg/L | 129 | | 60 - 130 | | |
| Heptachlor | BZI0212-BS1 | LCS | 0.00011621 | 0.00015000 | mg/L | 77.5 | | 60 - 130 | | |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A) (TCLP Extract)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZI0212** | Used client sample: Y - Description: SB30-00, 08/02/2016 14:04 | | | | | | | | | | |
| gamma-BHC (Lindane) | MS | 1621629-25 | ND | 0.0015908 | 0.0015000 | mg/L | | 106 | | 60 - 130 | |
| | MSD | 1621629-25 | ND | 0.0015400 | 0.0015000 | mg/L | 3.2 | 103 | 30 | 60 - 130 | |
| Endrin | MS | 1621629-25 | ND | 0.0019421 | 0.0015000 | mg/L | | 129 | | 60 - 130 | |
| | MSD | 1621629-25 | ND | 0.0018652 | 0.0015000 | mg/L | 4.0 | 124 | 30 | 60 - 130 | |
| Heptachlor | MS | 1621629-25 | ND | 0.0013214 | 0.0015000 | mg/L | | 88.1 | | 50 - 130 | |
| | MSD | 1621629-25 | ND | 0.0012937 | 0.0015000 | mg/L | 2.1 | 86.2 | 30 | 50 - 130 | |

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Project Number: 16-201-005
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# PCB Analysis (EPA Method 8082)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1085** | | | | | | |
| PCB-1016 | BZH1085-BLK1 | ND | mg/kg | 0.010 | 0.0039 | |
| PCB-1221 | BZH1085-BLK1 | ND | mg/kg | 0.010 | 0.0072 | |
| PCB-1232 | BZH1085-BLK1 | ND | mg/kg | 0.010 | 0.0074 | |
| PCB-1242 | BZH1085-BLK1 | ND | mg/kg | 0.010 | 0.0042 | |
| PCB-1248 | BZH1085-BLK1 | ND | mg/kg | 0.010 | 0.0070 | |
| PCB-1254 | BZH1085-BLK1 | ND | mg/kg | 0.010 | 0.0032 | |
| PCB-1260 | BZH1085-BLK1 | ND | mg/kg | 0.010 | 0.0029 | |
| Total PCB's (Summation) | BZH1085-BLK1 | ND | mg/kg | 0.010 | 0.0050 | |
| **Decachlorobiphenyl (Surrogate)** | **BZH1085-BLK1** | **75.0** | % | **40 - 120 (LCL - UCL)** | | |
| **QC Batch ID: BZH1166** | | | | | | |
| PCB-1016 | BZH1166-BLK1 | ND | mg/kg | 0.010 | 0.0039 | |
| PCB-1221 | BZH1166-BLK1 | ND | mg/kg | 0.010 | 0.0072 | |
| PCB-1232 | BZH1166-BLK1 | ND | mg/kg | 0.010 | 0.0074 | |
| PCB-1242 | BZH1166-BLK1 | ND | mg/kg | 0.010 | 0.0042 | |
| PCB-1248 | BZH1166-BLK1 | ND | mg/kg | 0.010 | 0.0070 | |
| PCB-1254 | BZH1166-BLK1 | ND | mg/kg | 0.010 | 0.0032 | |
| PCB-1260 | BZH1166-BLK1 | ND | mg/kg | 0.010 | 0.0029 | |
| Total PCB's (Summation) | BZH1166-BLK1 | ND | mg/kg | 0.010 | 0.0050 | |
| **Decachlorobiphenyl (Surrogate)** | **BZH1166-BLK1** | **96.7** | % | **40 - 120 (LCL - UCL)** | | |

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Project Manager: Travis Stravasnik

# PCB Analysis (EPA Method 8082)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1085** | | | | | | | | | | |
| PCB-1016 | BZH1085-BS1 | LCS | 0.091333 | 0.083333 | mg/kg | 110 | | 60 - 120 | | |
| PCB-1260 | BZH1085-BS1 | LCS | 0.091333 | 0.083333 | mg/kg | 110 | | 60 - 120 | | |
| Decachlorobiphenyl (Surrogate) | BZH1085-BS1 | LCS | 0.017000 | 0.020000 | mg/kg | 85.0 | | 40 - 120 | | |
| **QC Batch ID: BZH1166** | | | | | | | | | | |
| PCB-1016 | BZH1166-BS1 | LCS | 0.067213 | 0.081967 | mg/kg | 82.0 | | 60 - 120 | | |
| PCB-1260 | BZH1166-BS1 | LCS | 0.066557 | 0.081967 | mg/kg | 81.2 | | 60 - 120 | | |
| Decachlorobiphenyl (Surrogate) | BZH1166-BS1 | LCS | 0.014426 | 0.019672 | mg/kg | 73.3 | | 40 - 120 | | |

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Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# PCB Analysis (EPA Method 8082)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1085** | Used client sample: N | | | | | | | | | | |
| PCB-1016 | MS | 1616196-93 | ND | 0.090169 | 0.084746 | mg/kg | | 106 | | 60 - 120 | |
| | MSD | 1616196-93 | ND | 0.091060 | 0.082781 | mg/kg | 1.0 | 110 | 30 | 60 - 120 | |
| PCB-1260 | MS | 1616196-93 | ND | 0.095593 | 0.084746 | mg/kg | | 113 | | 60 - 120 | |
| | MSD | 1616196-93 | ND | 0.094040 | 0.082781 | mg/kg | 1.6 | 114 | 30 | 60 - 120 | |
| Decachlorobiphenyl (Surrogate) | MS | 1616196-93 | ND | 0.017627 | 0.020339 | mg/kg | | 86.7 | | 40 - 120 | |
| | MSD | 1616196-93 | ND | 0.017881 | 0.019868 | mg/kg | 1.4 | 90.0 | | 40 - 120 | |
| **QC Batch ID: BZH1166** | Used client sample: Y - Description: SB49-96, 08/02/2016 13:20 | | | | | | | | | | |
| PCB-1016 | MS | 1621629-82 | ND | 0.071429 | 0.083056 | mg/kg | | 86.0 | | 60 - 120 | |
| | MSD | 1621629-82 | ND | 0.062373 | 0.084746 | mg/kg | 13.5 | 73.6 | 30 | 60 - 120 | |
| PCB-1260 | MS | 1621629-82 | ND | 0.056478 | 0.083056 | mg/kg | | 68.0 | | 60 - 120 | |
| | MSD | 1621629-82 | ND | 0.067458 | 0.084746 | mg/kg | 17.7 | 79.6 | 30 | 60 - 120 | |
| Decachlorobiphenyl (Surrogate) | MS | 1621629-82 | ND | 0.013953 | 0.019934 | mg/kg | | 70.0 | | 40 - 120 | |
| | MSD | 1621629-82 | ND | 0.014237 | 0.020339 | mg/kg | 2.0 | 70.0 | | 40 - 120 | |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0683** | | | | | | |
| Benzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Bromobenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Bromochloromethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.00092 | |
| Bromodichloromethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.00084 | |
| Bromoform | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| Bromomethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0016 | |
| n-Butylbenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| sec-Butylbenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| tert-Butylbenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| Carbon tetrachloride | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| Chlorobenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Chloroethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| Chloroform | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.00063 | |
| Chloromethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 2-Chlorotoluene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0018 | |
| 4-Chlorotoluene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| Dibromochloromethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.00099 | |
| 1,2-Dibromo-3-chloropropane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0017 | |
| 1,2-Dibromoethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0010 | |
| Dibromomethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0018 | |
| 1,2-Dichlorobenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.00081 | |
| 1,3-Dichlorobenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 1,4-Dichlorobenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| Dichlorodifluoromethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| 1,1-Dichloroethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 1,2-Dichloroethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.00085 | |
| 1,1-Dichloroethene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| cis-1,2-Dichloroethene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| trans-1,2-Dichloroethene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 1,2-Dichloropropane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.00081 | |
| 1,3-Dichloropropane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| 2,2-Dichloropropane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| 1,1-Dichloropropene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| cis-1,3-Dichloropropene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0683** | | | | | | |
| trans-1,3-Dichloropropene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| Ethylbenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| Hexachlorobutadiene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0017 | |
| Isopropylbenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| p-Isopropyltoluene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Methylene chloride | BZH0683-BLK1 | ND | mg/kg | 0.010 | 0.0024 | |
| Methyl t-butyl ether | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.00050 | |
| Naphthalene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| n-Propylbenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Styrene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 1,1,1,2-Tetrachloroethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| 1,1,2,2-Tetrachloroethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| Tetrachloroethene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Toluene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| 1,2,3-Trichlorobenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0021 | |
| 1,2,4-Trichlorobenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0020 | |
| 1,1,1-Trichloroethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| 1,1,2-Trichloroethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.00077 | |
| Trichloroethene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| Trichlorofluoromethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| 1,2,3-Trichloropropane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0016 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| 1,2,4-Trimethylbenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| 1,3,5-Trimethylbenzene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| Vinyl chloride | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0016 | |
| Total Xylenes | BZH0683-BLK1 | ND | mg/kg | 0.010 | 0.0034 | |
| p- & m-Xylenes | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0022 | |
| o-Xylene | BZH0683-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| **1,2-Dichloroethane-d4 (Surrogate)** | **BZH0683-BLK1** | **106** | % | **70 - 121 (LCL - UCL)** | | |
| **Toluene-d8 (Surrogate)** | **BZH0683-BLK1** | **99.7** | % | **81 - 117 (LCL - UCL)** | | |
| **4-Bromofluorobenzene (Surrogate)** | **BZH0683-BLK1** | **93.2** | % | **74 - 121 (LCL - UCL)** | | |

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Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Volatile Organic Analysis (EPA Method 8260B/5035)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0683** | | | | | | | | | | |
| Benzene | BZH0683-BS1 | LCS | 0.11354 | 0.12500 | mg/kg | 90.8 | | 70 - 130 | | |
| Bromodichloromethane | BZH0683-BS1 | LCS | 0.11447 | 0.12500 | mg/kg | 91.6 | | 70 - 130 | | |
| Chlorobenzene | BZH0683-BS1 | LCS | 0.12155 | 0.12500 | mg/kg | 97.2 | | 70 - 130 | | |
| Chloroethane | BZH0683-BS1 | LCS | 0.10075 | 0.12500 | mg/kg | 80.6 | | 70 - 130 | | |
| 1,4-Dichlorobenzene | BZH0683-BS1 | LCS | 0.12895 | 0.12500 | mg/kg | 103 | | 70 - 130 | | |
| 1,1-Dichloroethane | BZH0683-BS1 | LCS | 0.11517 | 0.12500 | mg/kg | 92.1 | | 70 - 130 | | |
| 1,1-Dichloroethene | BZH0683-BS1 | LCS | 0.10748 | 0.12500 | mg/kg | 86.0 | | 70 - 130 | | |
| Toluene | BZH0683-BS1 | LCS | 0.11611 | 0.12500 | mg/kg | 92.9 | | 70 - 130 | | |
| Trichloroethene | BZH0683-BS1 | LCS | 0.11696 | 0.12500 | mg/kg | 93.6 | | 70 - 130 | | |
| 1,2-Dichloroethane-d4 (Surrogate) | BZH0683-BS1 | LCS | 0.046750 | 0.050000 | mg/kg | 93.5 | | 70 - 121 | | |
| Toluene-d8 (Surrogate) | BZH0683-BS1 | LCS | 0.047020 | 0.050000 | mg/kg | 94.0 | | 81 - 117 | | |
| 4-Bromofluorobenzene (Surrogate) | BZH0683-BS1 | LCS | 0.049020 | 0.050000 | mg/kg | 98.0 | | 74 - 121 | | |

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# Volatile Organic Analysis (EPA Method 8260B/5035)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0683** | Used client sample: N | | | | | | | | | | |
| Benzene | MS | 1616196-97 | ND | 0.12494 | 0.12500 | mg/kg | | 100 | | 70 - 130 | |
| | MSD | 1616196-97 | ND | 0.13073 | 0.12500 | mg/kg | 4.5 | 105 | 20 | 70 - 130 | |
| Bromodichloromethane | MS | 1616196-97 | ND | 0.12328 | 0.12500 | mg/kg | | 98.6 | | 70 - 130 | |
| | MSD | 1616196-97 | ND | 0.12695 | 0.12500 | mg/kg | 2.9 | 102 | 20 | 70 - 130 | |
| Chlorobenzene | MS | 1616196-97 | ND | 0.12421 | 0.12500 | mg/kg | | 99.4 | | 70 - 130 | |
| | MSD | 1616196-97 | ND | 0.11713 | 0.12500 | mg/kg | 5.9 | 93.7 | 20 | 70 - 130 | |
| Chloroethane | MS | 1616196-97 | ND | 0.11921 | 0.12500 | mg/kg | | 95.4 | | 70 - 130 | |
| | MSD | 1616196-97 | ND | 0.10552 | 0.12500 | mg/kg | 12.2 | 84.4 | 20 | 70 - 130 | |
| 1,4-Dichlorobenzene | MS | 1616196-97 | ND | 0.12279 | 0.12500 | mg/kg | | 98.2 | | 70 - 130 | |
| | MSD | 1616196-97 | ND | 0.12234 | 0.12500 | mg/kg | 0.4 | 97.9 | 20 | 70 - 130 | |
| 1,1-Dichloroethane | MS | 1616196-97 | ND | 0.12834 | 0.12500 | mg/kg | | 103 | | 70 - 130 | |
| | MSD | 1616196-97 | ND | 0.13022 | 0.12500 | mg/kg | 1.5 | 104 | 20 | 70 - 130 | |
| 1,1-Dichloroethene | MS | 1616196-97 | ND | 0.12366 | 0.12500 | mg/kg | | 98.9 | | 70 - 130 | |
| | MSD | 1616196-97 | ND | 0.12127 | 0.12500 | mg/kg | 2.0 | 97.0 | 20 | 70 - 130 | |
| Toluene | MS | 1616196-97 | ND | 0.12465 | 0.12500 | mg/kg | | 99.7 | | 70 - 130 | |
| | MSD | 1616196-97 | ND | 0.12421 | 0.12500 | mg/kg | 0.4 | 99.4 | 20 | 70 - 130 | |
| Trichloroethene | MS | 1616196-97 | ND | 0.12137 | 0.12500 | mg/kg | | 97.1 | | 70 - 130 | |
| | MSD | 1616196-97 | ND | 0.12237 | 0.12500 | mg/kg | 0.8 | 97.9 | 20 | 70 - 130 | |
| 1,2-Dichloroethane-d4 (Surrogate) | MS | 1616196-97 | ND | 0.053980 | 0.050000 | mg/kg | | 108 | | 70 - 121 | |
| | MSD | 1616196-97 | ND | 0.055330 | 0.050000 | mg/kg | 2.5 | 111 | | 70 - 121 | |
| Toluene-d8 (Surrogate) | MS | 1616196-97 | ND | 0.051020 | 0.050000 | mg/kg | | 102 | | 81 - 117 | |
| | MSD | 1616196-97 | ND | 0.048980 | 0.050000 | mg/kg | 4.1 | 98.0 | | 81 - 117 | |
| 4-Bromofluorobenzene (Surrogate) | MS | 1616196-97 | ND | 0.050760 | 0.050000 | mg/kg | | 102 | | 74 - 121 | |
| | MSD | 1616196-97 | ND | 0.050070 | 0.050000 | mg/kg | 1.4 | 100 | | 74 - 121 | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Petroleum Hydrocarbons

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1073** | | | | | | |
| TPH - Gasoline | BZH1073-BLK1 | ND | mg/kg | 20 | 5.0 | |
| TPH - Diesel (FFP) | BZH1073-BLK1 | ND | mg/kg | 10 | 1.2 | |
| TPH - Motor Oil | BZH1073-BLK1 | ND | mg/kg | 20 | 6.5 | |
| **Tetracosane (Surrogate)** | **BZH1073-BLK1** | **86.0** | % | **20 - 145 (LCL - UCL)** | | |
| **QC Batch ID: BZH1209** | | | | | | |
| TPH - Gasoline | BZH1209-BLK1 | ND | mg/kg | 20 | 5.0 | |
| TPH - Diesel (FFP) | BZH1209-BLK1 | ND | mg/kg | 10 | 1.2 | |
| TPH - Motor Oil | BZH1209-BLK1 | ND | mg/kg | 20 | 6.5 | |
| **Tetracosane (Surrogate)** | **BZH1209-BLK1** | **71.0** | % | **20 - 145 (LCL - UCL)** | | |
| **QC Batch ID: BZH1210** | | | | | | |
| TPH - Gasoline | BZH1210-BLK1 | ND | mg/kg | 20 | 5.0 | |
| TPH - Diesel (FFP) | BZH1210-BLK1 | ND | mg/kg | 10 | 1.2 | |
| TPH - Motor Oil | BZH1210-BLK1 | ND | mg/kg | 20 | 6.5 | |
| **Tetracosane (Surrogate)** | **BZH1210-BLK1** | **73.5** | % | **20 - 145 (LCL - UCL)** | | |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Petroleum Hydrocarbons

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1073** | | | | | | | | | | |
| TPH - Diesel (FFP) | BZH1073-BS1 | LCS | 66.524 | 82.508 | mg/kg | 80.6 | | 64 - 124 | | |
| Tetracosane (Surrogate) | BZH1073-BS1 | LCS | 2.6850 | 3.3003 | mg/kg | 81.4 | | 20 - 145 | | |
| **QC Batch ID: BZH1209** | | | | | | | | | | |
| TPH - Diesel (FFP) | BZH1209-BS1 | LCS | 59.960 | 84.746 | mg/kg | 70.8 | | 64 - 124 | | |
| Tetracosane (Surrogate) | BZH1209-BS1 | LCS | 2.6834 | 3.3898 | mg/kg | 79.2 | | 20 - 145 | | |
| **QC Batch ID: BZH1210** | | | | | | | | | | |
| TPH - Diesel (FFP) | BZH1210-BS1 | LCS | 69.807 | 84.746 | mg/kg | 82.4 | | 64 - 124 | | |
| Tetracosane (Surrogate) | BZH1210-BS1 | LCS | 2.7256 | 3.3898 | mg/kg | 80.4 | | 20 - 145 | | |

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Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Petroleum Hydrocarbons

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH1073** | Used client sample: N | | | | | | | | | | |
| TPH - Diesel (FFP) | MS | 1620830-25 | ND | 67.441 | 84.175 | mg/kg | | 80.1 | | 52 - 131 | |
| | MSD | 1620830-25 | ND | 57.311 | 83.333 | mg/kg | 16.2 | 68.8 | 30 | 52 - 131 | |
| Tetracosane (Surrogate) | MS | 1620830-25 | ND | 2.9064 | 3.3670 | mg/kg | | 86.3 | | 20 - 145 | |
| | MSD | 1620830-25 | ND | 2.4680 | 3.3333 | mg/kg | 16.3 | 74.0 | | 20 - 145 | |
| **QC Batch ID: BZH1209** | Used client sample: Y - Description: SB48-12, 08/02/2016 12:37 | | | | | | | | | | |
| **TPH - Diesel (FFP)** | MS | **1621629-77** | **ND** | **39.158** | **83.333** | **mg/kg** | | **47.0** | | **52 - 131** | **Q03** |
| | MSD | **1621629-77** | **ND** | **62.795** | **83.612** | **mg/kg** | **46.4** | **75.1** | **30** | **52 - 131** | **Q02** |
| Tetracosane (Surrogate) | MS | 1621629-77 | ND | 1.5950 | 3.3333 | mg/kg | | 47.9 | | 20 - 145 | |
| | MSD | 1621629-77 | ND | 2.7938 | 3.3445 | mg/kg | 54.6 | 83.5 | | 20 - 145 | |
| **QC Batch ID: BZH1210** | Used client sample: N | | | | | | | | | | |
| TPH - Diesel (FFP) | MS | 1622061-02 | ND | 62.171 | 83.056 | mg/kg | | 74.9 | | 52 - 131 | |
| | MSD | 1622061-02 | ND | 61.887 | 84.175 | mg/kg | 0.5 | 73.5 | 30 | 52 - 131 | |
| Tetracosane (Surrogate) | MS | 1622061-02 | ND | 2.4234 | 3.3223 | mg/kg | | 72.9 | | 20 - 145 | |
| | MSD | 1622061-02 | ND | 2.4266 | 3.3670 | mg/kg | 0.1 | 72.1 | | 20 - 145 | |

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**Reported:** 11/18/2016 16:01
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Project Number: 16-201-005
Project Manager: Travis Stravasnik

# WET Test (STLC)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZI0259** | | | | | | |
| Lead | BZI0259-BLK1 | ND | mg/L | 0.50 | 0.16 | |

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Project Number: 16-201-005
Project Manager: Travis Stravasnik

# WET Test (STLC)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZI0259** | | | | | | | | | | |
| Lead | BZI0259-BS1 | LCS | 18.429 | 20.000 | mg/L | 92.1 | | 85 - 115 | | |

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**Reported:** 11/18/2016 16:01
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Project Number: 16-201-005
Project Manager: Travis Stravasnik

# WET Test (STLC)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZI0259** | Used client sample: N | | | | | | | | | | |
| Lead | DUP | 1622887-01 | 2.6462 | 2.6836 | | mg/L | 1.4 | | 20 | | |
| | MS | 1622887-01 | 2.6462 | 20.467 | 20.408 | mg/L | | 87.3 | | 75 - 125 | |
| | MSD | 1622887-01 | 2.6462 | 21.244 | 20.408 | mg/L | 3.7 | 91.1 | 20 | 75 - 125 | |

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Project Manager: Travis Stravasnik

# TCLP Toxicity

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZI0090** | | | | | | |
| Lead | BZI0090-BLK1 | ND | mg/L | 0.50 | 0.030 | |

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Project Number: 16-201-005
Project Manager: Travis Stravasnik

# TCLP Toxicity

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZI0090** | | | | | | | | | | |
| Lead | BZI0090-BS1 | LCS | 19.090 | 20.000 | mg/L | 95.4 | | 85 - 115 | | |

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# TCLP Toxicity

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZI0090** | Used client sample: N | | | | | | | | | | |
| Lead | DUP | 1622324-01 | 0.12379 | 0.11172 | | mg/L | 10.2 | | 20 | | J |
| | MS | 1622324-01 | 0.12379 | 18.145 | 20.000 | mg/L | | 90.1 | | 75 - 125 | |
| | MSD | 1622324-01 | 0.12379 | 18.212 | 20.000 | mg/L | 0.4 | 90.4 | 20 | 75 - 125 | |

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# Total Concentrations (TTLC)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0820** | | | | | | |
| Arsenic | BZH0820-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| Lead | BZH0820-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| **QC Batch ID: BZH0821** | | | | | | |
| Arsenic | BZH0821-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| Lead | BZH0821-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| **QC Batch ID: BZH0930** | | | | | | |
| Arsenic | BZH0930-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| Lead | BZH0930-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| **QC Batch ID: BZI0165** | | | | | | |
| Arsenic | BZI0165-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| Lead | BZI0165-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| **QC Batch ID: BZJ0692** | | | | | | |
| Arsenic | BZJ0692-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| **QC Batch ID: BZK1606** | | | | | | |
| Lead | BZK1606-BLK1 | ND | mg/kg | 2.5 | 0.28 | |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0820** | | | | | | | | | | |
| Arsenic | BZH0820-BS1 | LCS | 10.227 | 10.000 | mg/kg | 102 | | 75 - 125 | | |
| Lead | BZH0820-BS1 | LCS | 100.23 | 100.00 | mg/kg | 100 | | 75 - 125 | | |
| **QC Batch ID: BZH0821** | | | | | | | | | | |
| Arsenic | BZH0821-BS1 | LCS | 10.512 | 10.000 | mg/kg | 105 | | 75 - 125 | | |
| Lead | BZH0821-BS1 | LCS | 102.54 | 100.00 | mg/kg | 103 | | 75 - 125 | | |
| **QC Batch ID: BZH0930** | | | | | | | | | | |
| Arsenic | BZH0930-BS1 | LCS | 9.4777 | 10.000 | mg/kg | 94.8 | | 75 - 125 | | |
| Lead | BZH0930-BS1 | LCS | 92.884 | 100.00 | mg/kg | 92.9 | | 75 - 125 | | |
| **QC Batch ID: BZI0165** | | | | | | | | | | |
| Arsenic | BZI0165-BS1 | LCS | 9.6209 | 10.000 | mg/kg | 96.2 | | 75 - 125 | | |
| Lead | BZI0165-BS1 | LCS | 100.58 | 100.00 | mg/kg | 101 | | 75 - 125 | | |
| **QC Batch ID: BZJ0692** | | | | | | | | | | |
| Arsenic | BZJ0692-BS1 | LCS | 9.3750 | 10.000 | mg/kg | 93.7 | | 75 - 125 | | |
| **QC Batch ID: BZK1606** | | | | | | | | | | |
| Lead | BZK1606-BS1 | LCS | 94.434 | 100.00 | mg/kg | 94.4 | | 75 - 125 | | |

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# Total Concentrations (TTLC)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZH0820** | Used client sample: Y - Description: SB22-00, 08/01/2016 12:14 | | | | | | | | | | |
| Arsenic | DUP | 1621629-01 | 12.892 | 12.278 | | mg/kg | 4.9 | | 20 | | |
| | MS | 1621629-01 | 12.892 | 21.426 | 10.000 | mg/kg | | 85.3 | | 75 - 125 | |
| | MSD | 1621629-01 | 12.892 | 21.356 | 10.000 | mg/kg | 0.3 | 84.6 | 20 | 75 - 125 | |
| **Lead** | DUP | **1621629-01** | **46.143** | **49.711** | | **mg/kg** | **7.4** | | **20** | | |
| | MS | **1621629-01** | **46.143** | **128.64** | **100.00** | **mg/kg** | | **82.5** | | **75 - 125** | |
| | MSD | **1621629-01** | **46.143** | **119.26** | **100.00** | **mg/kg** | **7.6** | **73.1** | **20** | **75 - 125** | **Q03** |
| **QC Batch ID: BZH0821** | Used client sample: Y - Description: SB42-00, 08/02/2016 09:17 | | | | | | | | | | |
| Arsenic | DUP | 1621629-59 | 3.9172 | 4.1006 | | mg/kg | 4.6 | | 20 | | |
| | MS | 1621629-59 | 3.9172 | 13.201 | 10.000 | mg/kg | | 92.8 | | 75 - 125 | |
| | MSD | 1621629-59 | 3.9172 | 13.189 | 10.000 | mg/kg | 0.1 | 92.7 | 20 | 75 - 125 | |
| Lead | DUP | 1621629-59 | 3.9637 | 4.3101 | | mg/kg | 8.4 | | 20 | | |
| | MS | 1621629-59 | 3.9637 | 91.799 | 100.00 | mg/kg | | 87.8 | | 75 - 125 | |
| | MSD | 1621629-59 | 3.9637 | 93.773 | 100.00 | mg/kg | 2.1 | 89.8 | 20 | 75 - 125 | |
| **QC Batch ID: BZH0930** | Used client sample: Y - Description: SB48-12, 08/02/2016 12:37 | | | | | | | | | | |
| Arsenic | DUP | 1621629-77 | 5.6700 | 5.7227 | | mg/kg | 0.9 | | 20 | | |
| | MS | 1621629-77 | 5.6700 | 14.088 | 10.000 | mg/kg | | 84.2 | | 75 - 125 | |
| | MSD | 1621629-77 | 5.6700 | 14.966 | 10.000 | mg/kg | 6.0 | 93.0 | 20 | 75 - 125 | |
| **Lead** | DUP | **1621629-77** | **8.7309** | **7.8307** | | **mg/kg** | **10.9** | | **20** | | |
| | MS | **1621629-77** | **8.7309** | **83.481** | **100.00** | **mg/kg** | | **74.8** | | **75 - 125** | **Q03** |
| | MSD | **1621629-77** | **8.7309** | **86.250** | **100.00** | **mg/kg** | **3.3** | **77.5** | **20** | **75 - 125** | |
| **QC Batch ID: BZI0165** | Used client sample: Y - Description: SB22-12, 08/01/2016 12:21 | | | | | | | | | | |
| **Arsenic** | DUP | **1621629-02** | **2.5543** | **10.983** | | **mg/kg** | **125** | | **20** | | **Q01** |
| | MS | **1621629-02** | **2.5543** | **20.366** | **10.000** | **mg/kg** | | **178** | | **75 - 125** | **Q03** |
| | MSD | **1621629-02** | **2.5543** | **18.701** | **10.000** | **mg/kg** | **8.5** | **161** | **20** | **75 - 125** | **Q03** |
| Lead | DUP | 1621629-02 | 11.237 | 12.295 | | mg/kg | 9.0 | | 20 | | |
| | MS | 1621629-02 | 11.237 | 111.37 | 100.00 | mg/kg | | 100 | | 75 - 125 | |
| | MSD | 1621629-02 | 11.237 | 109.68 | 100.00 | mg/kg | 1.5 | 98.4 | 20 | 75 - 125 | |
| **QC Batch ID: BZJ0692** | Used client sample: Y - Description: SB11-24, 08/03/2016 09:26 | | | | | | | | | | |
| **Arsenic** | DUP | **1621628-29** | **13.082** | **13.494** | | **mg/kg** | **3.1** | | **20** | | |
| | MS | **1621628-29** | **13.082** | **18.455** | **10.000** | **mg/kg** | | **53.7** | | **75 - 125** | **Q03** |
| | MSD | **1621628-29** | **13.082** | **18.267** | **10.000** | **mg/kg** | **1.0** | **51.9** | **20** | **75 - 125** | **Q03** |
| **QC Batch ID: BZK1606** | Used client sample: Y - Description: SB36-5S-00, 09/24/2016 08:19 | | | | | | | | | | |
| **Lead** | DUP | **1627023-07** | **28.887** | **38.466** | | **mg/kg** | **28.4** | | **20** | | **Q01** |
| | MS | **1627023-07** | **28.887** | **118.15** | **100.00** | **mg/kg** | | **89.3** | | **75 - 125** | |
| | MSD | **1627023-07** | **28.887** | **116.86** | **100.00** | **mg/kg** | **1.1** | **88.0** | **20** | **75 - 125** | |

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**Reported:** 11/18/2016 16:01
Project: LAUSD - San Pedro HS
Project Number: 16-201-005
Project Manager: Travis Stravasnik

## Notes And Definitions

| | |
|---|---|
| J | Estimated Value (CLP Flag) |
| MDL | Method Detection Limit |
| ND | Analyte Not Detected |
| PQL | Practical Quantitation Limit |
| A07 | Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference. |
| A10 | Detection and quantitation limits were raised due to matrix interference. |
| A19 | Surrogate is high due to matrix interference. Interferences verified through second extraction/analysis. |
| A57 | Chromatogram not typical of motor oil. |
| Q01 | Sample precision is not within the control limits. |
| Q02 | Matrix spike precision is not within the control limits. |
| Q03 | Matrix spike recovery(s) is(are) not within the control limits. |
| S05 | The sample holding time was exceeded. |
| S09 | The surrogate recovery on the sample for this compound was not within the control limits. |

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Date of Report: 01/12/2017

Travis Stravasnik

E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

| | |
|---|---|
| Client Project: | [none] |
| BCL Project: | LAUSD-San Pedro High School |
| BCL Work Order: | 1627023 |
| Invoice ID: | B248769, B249722, B252631, B254949, B255946, B256466, B256737 |

Enclosed are the results of analyses for samples received by the laboratory on 9/27/2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature



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Total Concentrations (TTLC) ..... 43

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**1627023-18 - SB26-5S-00**
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Total Concentrations (TTLC) ..... 46

**1627023-21 - SB26-5N-00**
Organochlorine Pesticides (EPA Method 8081A) ..... 47
Total Concentrations (TTLC) ..... 48

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**1627023-26 - DUP1A-092416**
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Total Concentrations (TTLC) ..... 52

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Total Concentrations (TTLC) ..... 53

**1627023-29 - SB25-10W-24**
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**1627023-30 - SB25-5W-00**
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Total Concentrations (TTLC)..... 89
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Total Concentrations (TTLC)..... 91
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Total Concentrations (TTLC)..... 95
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BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

# BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

16-27023 '19

## Chain of Custody

TEMP: _____

* Required Fields

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y ☐ N ☐ System No. *

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -1 | | 9/24/16 | 0810 | SB36-10S-00 | soil | HOLD | | | |
| -2 | | 9/ /16 | 0812 | SB36-10S-12 | soil | | | | |
| -3 | | 9/ /16 | 0815 | SB36-10S-24 | soil | | | | |
| -4 | | 9/ /16 | 0810 | SB36-10N-00 | soil | | | | |
| -5 | | 9/ /16 | 0813 | SB36-10N-12 | soil | | | | |
| -6 | | 9/ /16 | 0824 | SB36-10N-24 | soil | | | | |
| -7 | | 9/ /16 | 0819 | SB36-5S-00 | soil | | [redacted] | X | |
| -8 | | 9/ /16 | 0821 | SB36-5S-12 | soil | HOLD | | | |
| -9 | | 9/ /16 | 0823 | SB36-5S-24 | soil | | [redacted] | X | |
| -10 | | 9/ /16 | 0828 | SB36-5N-00 | soil | | | | |
| -11 | | 9/ /16 | 0830 | SB36-5N-12 | soil | HOLD | | | |

CHK BY DISTRIBUTION SUB-OUT

| | Company | Date | Time | | Company |
|---|---|---|---|---|---|
| Relinquished by: (Signature and Printed Name) G. Valenzuela | E2Managetech | 8/20/16 | 1:20 | Received by (Signature and Print Name) | BC Labs |
| Relinquished by: (Signature and Printed Name) | BC Labs | 9/27/16 | 5:20 | Received by (Signature and Print Name) | BCL |
| Received for Lab by: (Signature and Printed Name) | | 9/27/16 | 1900 | Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER 9:27 am

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

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2/19

16-27023

## Chain of Custody

TEMP: _____

* Required Fields

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Regulatory Compliance: Electronic Data Transfer: Y ☐ N ☐ System No. *

ANALYSIS REQUESTED

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -12 | | 9/24/16 | 0832 | SB26-5N-24 | soil | HOLD | | | |
| -13 | | 9/ /16 | 0840 | SB26-10N-00 | soil | ↓ | | | |
| -14 | | 9/ /16 | 0845 | ~~SB26-10N-00~~ SB26-10N-12 | soil | | | | |
| -15 | | 9/ /16 | 0842 | SB26-10S-00 | soil | | | | |
| -16 | | 9/ /16 | 0845 | SB26-10S-12 | soil | | | | |
| -17 | | 9/ /16 | 0847 | SB26-10S-24 | soil | ↓ | | | |
| -18 | | 9/ /16 | 0859 | SB26-5S-00 | soil | | ~~X~~ | X | X |
| -19 | | 9/ /16 | 0906 | SB26-5S-12 | soil | HOLD | | | |
| -20 | | 9/ /16 | 0908 | SB26-5S-24 | soil | ↓ | | | |
| -21 | | 9/ /16 | 0910 | SB26-5N-00 | soil | | ~~X~~ | X | X |
| -22 | | 9/ /16 | 0914 | SB26-5N-12 | soil | HOLD | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 9/26/16 | 1420 | John Ward | BC Labs |
| John Ward | BC Labs | 9/27/16 | 520 | | BCL |
| | | 9/27/16 | 1900 | | |

Received for Lab by: (Signature and Printed Name)

Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER — 9.27 1900

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

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9/19

16-27023

TEMP: _____

## Chain of Custody

* Required Fields

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

ANALYSIS REQUESTED

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

| Project Information: | PO # |
|---|---|
| LAUSD-San Pedro High School | BCL Quote # |

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y☐ N☐ System No. *

| Sampler Name Printed / Signature | QC Request | Result Request ** Surcharge |
|---|---|---|
| G. Valenzuela/K. Lin/A.Mitoma | ☑ STD ☐ Level II | ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day** |

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -23 | | 9/24/16 | 0919 | SB25-5N-24 | soil | HOLD | | | |
| -24 | | 9/ /16 | 1534 | SB [redacted] DUP 1c-092416 | soil | ↓ | | | |
| -25 | | 9/ /16 | 1532 | SB [redacted] DUP 1b-092416 | soil | | | | |
| -26 | | 9/ /16 | 1530 | SB [redacted] DUP 1a-092416 | soil | | [redacted] | X | X |
| -27 | | 9/ /16 | 0951 | SB25-10W-00 | soil | HOLD | | | |
| -28 | | 9/ /16 | 0953 | SB25-10W-12 | soil | ↓ | | | |
| -29 | | 9/ /16 | 0954 | SB25-10W-24 | soil | | | | |
| -30 | | 9/ /16 | 1010 | SB25-5W-00 | soil | | | X | X |
| -31 | | 9/ /16 | 1012 | SB25-5W-12 | soil | HOLD | | | |
| -32 | | 9/ /16 | 1021 | SB25-5W-24 | soil | ↓ | | | |
| -33 | | 9/ /16 | 0951 | SB25 10E-00 | soil | | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by: (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 9/26/16 | 1120 | | BC Labs |
| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by: (Signature and Print Name) | Company |
| | BC Labs | 9/27/16 | 520 | | BCL |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: | |
| | | 9/27/16 | 1900 | Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: 9.27. 1900 CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

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16-27023

## Chain of Custody

* Required Fields

TEMP: _____

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y ☐ N ☐ System No. *

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -34 | | 9/14/16 | 0955 | SB25-10E-12 | soil | HOLD | | | |
| -35 | | 9/ /16 | 1010 | SB25-10E-24 | soil | ↓ | | | |
| -36 | | 9/ /16 | 1016 | SB25-5E-00 | soil | | | X | X |
| -37 | | 9/ /16 | 1021 | SB25-5E-12 | soil | HOLD | | | |
| ~~-~~ | ~~-~~ | ~~9/ /16~~ | ~~-~~ | ~~SB25-5E-24~~ | soil | | | | |
| -38 | | 9/ /16 | 1049 | SB30-10N-00 | soil | | | | |
| -39 | | 9/ /16 | 1051 | SB30-10N-12 | soil | | | | |
| -40 | | 9/ /16 | 1058 | SB30-10N-24 | soil | | | | |
| -41 | | 9/ /16 | 1050 | SB30-10S-00 | soil | | | | |
| -42 | | 9/ /16 | 1125 | SB30-10S-00 | soil | | | | |
| -43 | | 9/ /16 | 1128 | SB30-10S-12 | soil | ↓ | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 9/26/16 | 1120 | | BC Labs |
| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
| | BC Labs | 9/27 | 520 | | BCL |
| Received for Laboratory: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: | |
| | | 9/27/16 | 1900 | Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: 9-27 1900 CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

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# BC LABORATORIES

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5/19

16-27023

TEMP: _____

## Chain of Custody

* Required Fields

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y ☐ N ☐ System No. *

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Matrix Types:** RSW = Raw Surface Water; RGW = Raw Ground Water; CFW = Clorinated Finished Water; FW = Finished Water; CWW = Chorinated Waste Water; WW = Waste Water; BW = Bottled Water; SW = Storm Water; DW = Drinking Water; SO = Solid

ANALYSIS REQUESTED

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -44 | | 9/21/16 | 1131 | SB30-10E-24 | soil | HOLD | | | |
| -45 | | 9/ /16 | 1109 | SB30-5N-00 | soil | | | | X |
| -46 | | 9/ /16 | 1112 | SB30-5N-12 | soil | HOLD | | | |
| -47 | | 9/ /16 | 1115 | SB30-5N-24 | soil | ↓ | | | |
| -48 | | 9/ /16 | 1102 | SB30-5S-00 | soil | | | | X |
| -49 | | 9/ /16 | 1103 | SB30-5S-12 | soil | HOLD | | | |
| -50 | | 9/ /16 | 1109 | SB30-5S-24 | soil | ↓ | | | |
| -51 | | 9/ /16 | 1124 | SB30-5E-00 | soil | | | | X |
| -52 | | 9/ /16 | 1126 | SB30-5E-12 | soil | HOLD | | | |
| -53 | | 9/ /16 | 1129 | SB30-5E-24 | soil | ↓ | | | |
| -54 | | 9/ /16 | 1202 | SB27-5S-00 | soil | | | X | |

| | Company | Date | Time | | Company |
|---|---|---|---|---|---|
| Relinquished by: (Signature and Printed Name) G. Valenzuela | E2Managetech | 9/22/16 | 1120 | Received by (Signature and Print Name) John Wood | BC Labs |
| Relinquished by: (Signature and Printed Name) John Wood | BC Labs | 9/23/16 | 520 | Received by (Signature and Print Name) | BC |
| Received for Lab by: (Signature and Printed Name) | | 9/23/16 | 1900 | Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER 9.27 1900

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

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# BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

6/19

16-27023

TEMP: _____

## Chain of Custody

* Required Fields

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y ☐ N ☐ System No. *

| Sampler Name Printed / Signature | QC Request | Result Request ** Surcharge |
|---|---|---|
| G. Valenzuela/K. Lin/A.Mitoma | ☑ STD ☐ Level II | ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day** |

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -55 | | 9/24/16 | 1206 | SB27-10S-00 | soil | HOLD | | | |
| -56 | | 9/ /16 | 1215 | ~~SB27-10S-12~~ SB27-10S-12 | soil | ↓ | | | |
| -57 | | 9/ /16 | 1225 | SB27-5E-00 | soil | | | X | |
| -58 | | 9/ /16 | 1230 | SB27-5E-12 | soil | HOLD | | | |
| -59 | | 9/ /16 | 1235 | SB27-5E-24 | soil | | | | |
| -60 | | 9/ /16 | 1226 | SB27-10W-00 | soil | | | | |
| -61 | | 9/ /16 | 1232 | SB27-10W-12 | soil | | | | |
| -62 | | 9/ /16 | 1235 | SB27-10W-24 | soil | ↓ | | | |
| -63 | | 9/ /16 | 1545 | ~~SB~~ DUP2a-092416 | soil | | | X | |
| -64 | | 9/ /16 | 1547 | ~~SB~~ DUP2b-092416 | soil | HOLD | | | |
| -65 | | 9/ /16 | 1549 | ~~SB~~ DUP2c-092416 | soil | ↓ | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 9/26/16 | 1120 | John Wood | BC Labs |
| John Wood | BC Labs | 9/27/16 | 520 | | BCL |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: | |
| | | 9/27/16 | 1900 | Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: 9.27 1900

CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

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# BC LABORATORIES

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7/19

16-27023

## Chain of Custody

* Required Fields

TEMP: _____

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

ANALYSIS REQUESTED

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

**Carbon Copies:** CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

| Project Information: | PO # |
|---|---|
| LAUSD-San Pedro High School | BCL Quote # |

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

**Regulatory Compliance** Electronic Data Transfer: Y ☐ N ☐ System No. *

| Sampler Name Printed / Signature | QC Request | Result Request ** Surcharge |
|---|---|---|
| G. Valenzuela/K. Lin/A.Mitoma | ☑ STD ☐ Level II | ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day** |

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -66 | | 9/24/16 | 1307 | SB 27-SW-00 | soil | | | X | |
| -67 | | 9/ /16 | 1310 | SB 27-SW-12 | soil | HOLD | | | |
| -68 | | 9/ /16 | 1321 | SB 27-SW-24 | soil | ↓ NO | NO | | NO |
| -69 | | 9/ /16 | 1327 | SB 31-5E-00 | soil | | | | X |
| -70 | | 9/ /16 | 1330 | SB 31-5E-12 | soil | HOLD | | | |
| -71 | | 9/ /16 | 1333 | SB 31-5E-24 | soil | ↓ | | | |
| -72 | | 9/ /16 | 1326 | SB 31-SW-00 | soil | | | | X |
| -73 | | 9/ /16 | 1328 | SB 31-SW-12 | soil | HOLD | | | |
| -74 | | 9/ /16 | 1331 | SB 31-SW-24 | soil | ↓ | | | |
| -75 | | 9/ /16 | 1340 | SB 31-SS-00 | soil | | | | X |
| -76 | | 9/ /16 | 1341 | SB 31-SS-12 | soil | HOLD | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 9/24/16 | 1120 | John Wood | BC Labs |
| John Wood | BC Labs | 9/27/16 | 520 | | BCL |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: | |
| | | 9/27/16 | 1900 | Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: 9:27 1900
CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

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8/19

## Chain of Custody

* Required Fields

16-27023 TEMP: _____

| Client/Company Name *: | Report Attention *: | Phone * #: / FAX * #: |
|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 / E-mail: gabriela.valenzuela@e2mt.com |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Project Information: LAUSD-San Pedro High School

PO # / BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Regulatory Compliance: Electronic Data Transfer: Y ☐ N ☐ System No. *

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -77 | | 9/24/16 | 1339 | SB 31-10E-00 | soil | HOLD | | | |
| -78 | | 9/ /16 | 1342 | SB 31-10E-12 | soil | | | | |
| -79 | | 9/ /16 | 1344 | SB 31-10E-24 | soil | | | | |
| -80 | | 9/ /16 | 1352 | SB 31-10S-00 | soil | | | | |
| -81 | | 9/ /16 | 1353 | SB 31-10S-12 | soil | | | | |
| -82 | | 9/ /16 | 1355 | SB 31-10S-24 | soil | | | | |
| -83 | | 9/ /16 | 1401 | SB 34-5E-00 | soil | | | | |
| -84 | | 9/ /16 | 1405 | SB 34-5E-12 | soil | HOLD | | | |
| -85 | | 9/ /16 | 1407 | SB 34-5E-24 | soil | | | | |
| -86 | | 9/ /16 | 1415 | SB 34-5N-00 | soil | | | | |
| -87 | | 9/ /16 | 1418 | SB 34-5N-12 | soil | HOLD | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 9/24/16 | 1120 | John Wood | BC Labs |
| John Wood | BC Labs | 9/27/16 | 0520 | | BCL |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init. | |
| | | 9.27 | 1900 | | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

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# BC LABORATORIES

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9/19

16-27023

TEMP: _____

## Chain of Custody

* Required Fields

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Carbon Copies:**
CDHS ☐ Fresno Co ☐ EPA ☐
Merced Co ☐ Tulare Co ☐
Other:

**Regulatory Compliance**
Electronic Data Transfer: Y ☐ N ☐
System No. *

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water
RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -88 | | 9/24/16 | 1421 | SB 34-5N-24 | soil | HOLD | | | |
| -89 | | 9/ /16 | 1424 | SB 34-10N-00 | soil | | | | |
| -90 | | 9/ /16 | 1426 | SB 34-10N-12 | soil | | | | |
| -91 | | 9/ /16 | 1429 | SB 34-10N-24 | soil | | | | |
| -92 | | 9/ /16 | 1400 | SB 34-10S-00 | soil | | | | |
| -93 | | 9/ /16 | 1402 | SB 34-10S-12 | soil | | | | |
| -94 | | 9/ /16 | 1409 | SB 34-10S-24 | soil | | | | |
| -95 | | 9/ /16 | 1416 | SB 34-55-00 | soil | | | | |
| -96 | | 9/ /16 | 1418 | SB 34-55-12 | soil | HOLD | | | |
| -97 | | 9/ /16 | 1423 | SB 34-55-24 | soil | | | | |
| | | 9/ /16 | | SB | soil | | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by: (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 9/26/16 | 11:20 | | BC Labs |
| | BC Labs | 9/27/16 | 5:20 | | BCL |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: | |
| | | 9/27/16 | 1900 | Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: 9.27 1900
CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

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**Chain of Custody and Cooler Receipt Form for 1627023 Page 10 of 21**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 12

Submission #: 16-27023

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: 1R Glass Thermometer ID: 208 Date/Time: 9.27.16 1902

Temperature: ( A ) 1.0 °C / ( C ) 1.2 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:
Sample Numbering Completed By: Date/Time: 9/28/16 1125

Rev 21 05/23/2016

**Chain of Custody and Cooler Receipt Form for 1627023 Page 11 of 21**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 12

Submission #: 16-27023

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: 1L Glass Thermometer ID: 208 Date/Time: 9-27-16 1902

Temperature: (A) 1.0 °C / (C) 1.2 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: MA Date/Time: 9/28/16 1225 Rev 21 05/23/2016

BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 Of 12

Submission #: 16-27023 #

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: 1P Glass Thermometer ID: 208 Date/Time: 9.27.16 1902

Temperature: (A) 1.0 °C / (C) 1.2 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 24 | 25 | 26 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: COA Date/Time: 9/28/16 1225 Rev 21 05/23/2016

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**Chain of Custody and Cooler Receipt Form for 1627023 Page 13 of 21**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 4 Of 17

Submission #: 16-27023

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: 1L Glass Thermometer ID: 208 Date/Time: 9.27.16 1902

Temperature: (A) 1.0 °C / (C) 1.2 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: COA Date/Time: 9/28/16 1225

Rev 21 05/23/2016

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**Chain of Custody and Cooler Receipt Form for 1627023 Page 14 of 21**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 5 Of 17

Submission #: 16-27023 #

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: 1P Glass Thermometer ID: 208 Date/Time: 9.27.16 1902

Temperature: (A) 1.0 °C / (C) 1.2 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 8 | 9 | 10 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| ~~8oz~~ / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: MAR Date/Time: 9/28/16 1225 Rev 21 05/23/2016

**Chain of Custody and Cooler Receipt Form for 1627023 Page 15 of 21**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 6 Of 12

Submission #: 16-27023

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact: Yes ☐ No ☐ Containers ☐ Intact: Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: CR Glass Thermometer ID: 208 Date/Time: 9.27.16 1900

Temperature: (A) 0.7 °C / (C) 0.809 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 66 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments: COA 9/28/16 1225

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**Chain of Custody and Cooler Receipt Form for 1627023 Page 16 of 21**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 7 Of 12

Submission #: 16-27023

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐<br>BC Lab Field Service ☒ Other ☐ (Specify)_____ | Ice Chest ☒ None ☐ Box ☐<br>Other ☐ (Specify)_____ | YES ☐ NO ☐<br>W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: 1P Glass Thermometer ID: 208 Date/Time: 9.27.16 1902

Temperature: (A) 0.7 °C / (C) 0.809 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments: ADA 9/28/16 1225

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 8 Of 12

Submission #: 16-27023

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐<br>BC Lab Field Service ☒ Other ☐ (Specify)_____ | Ice Chest ☒ None ☐ Box ☐<br>Other ☐ (Specify)_____ | YES ☐ NO ☐<br>W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact: Yes ☐ No ☐ Containers ☐ Intact: Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: 1R Glass Thermometer ID: 208 Date/Time: 9.27.16 1900

Temperature: ( A ) 0.7 °C / ( C ) 0.809 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 80 | 81 | 82 | 83 | 84 | 85 | 89 | 90 | 91 | 92 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments: AAA 9/27/16 1225

**Chain of Custody and Cooler Receipt Form for 1627023 Page 18 of 21**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 9 Of 12

Submission #: 16-27023

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact: Yes ☐ No ☐ Containers ☐ Intact: Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: 1P G/C/O Thermometer ID: 208 Date/Time 9.27.16 1900

Temperature: (A) 0.7 °C / (C) 0.809 °C Analyst Init JJ

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 93 | 94 | 95 | 96 | 97 | 6 | 7 | 8 | 9 | 10 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments: COA 9/28/16 1225

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**Chain of Custody and Cooler Receipt Form for 1627023 Page 19 of 21**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 10 Of 52

Submission #: 16-27023

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: Glass Thermometer ID: 208 Date/Time: 9.27.16 1902

Temperature: (A) 0.3 °C / (C) 0.5 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 27 | 28 | 29 | 63 | 64 | 65 | 77 | 78 | 79 | 80 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | A | A | A | A | A | A | A | A | A | A |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: AMA Date/Time: 9/28/16 1225 Rev 21 05/23/2016

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**Chain of Custody and Cooler Receipt Form for 1627023 Page 20 of 21**

COOLER RECEIPT FORM — Page 11 Of 12

BC LABORATORIES INC.

Submission #: 16-27023

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
W / (S)

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact: Yes ☐ No ☐ Containers ☐ Intact: Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.975 Container: 1L Glass Thermometer ID: 208 Date/Time: 9-27-16 1902

Temperature: (A) 0.3 °C / (C) 0.5 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS 87 | 88 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | A | A | | | | | | | | |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:_____

Sample Numbering Completed By: COA Date/Time: 9/28/16 1225

Rev 21 05/23/20

**Chain of Custody and Cooler Receipt Form for 1627023 Page 21 of 21**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 12 Of 12

Submission #: 16-27023

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W (S) |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: IRG1000 Thermometer ID: 208 Date/Time: 9.27.16 1902

Temperature: (A) 0.2 °C / (C) 0.4 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 21 | 22 | 23 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: DOA Date/Time: 9/28/16 1225

Rev 21 05/23/2016

E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627023-01** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 08:10 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB36-10S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-02** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 08:12 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB36-10S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-03** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 08:15 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB36-10S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-04** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 08:10 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB36-10N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-05** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 08:13 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB36-10N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-06** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 08:24 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB36-10N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-07** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 08:19 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB36-5S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627023-08** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 08:21 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB36-5S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-09** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 08:23 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB36-5S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-10** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 08:28 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB36-5N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-11** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 08:30 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB36-5N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-12** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 08:32 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB36-5N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-13** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 08:40 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB26-10N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-14** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 08:45 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB26-10N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627023-15** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 08:42 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB26-10S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-16** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 08:45 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB26-10S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-17** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 08:47 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB26-10S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-18** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 08:59 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB26-5S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-19** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 09:06 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB26-5S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-20** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 09:08 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB26-5S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-21** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 09:10 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB26-5N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627023-22** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 09:14 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB26-5N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-23** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 09:19 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB26-5N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-24** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 15:34 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP1C-092416 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-25** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 15:32 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP1B-092416 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-26** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 15:30 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP1A-092416 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-27** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 09:51 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB25-10W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-28** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 09:53 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB25-10W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627023-29** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 10:04 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB25-10W-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-30** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 10:10 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB25-5W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-31** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 10:12 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB25-5W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-32** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 10:21 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB25-5W-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-33** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 09:51 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB25-10E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-34** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 09:55 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB25-10E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-35** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 10:10 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB25-10E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627023-36** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 10:16 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB25-5E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-37** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 10:21 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB25-5E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-38** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 10:49 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB30-10N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-39** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 10:51 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB30-10N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-40** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 10:58 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB30-10N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-41** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 10:50 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB30-10S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-42** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 11:25 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB30-10E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627023-43** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 11:28 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB30-10E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-44** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 11:31 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB30-10E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-45** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 11:09 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB30-5N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-46** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 11:12 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB30-5N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-47** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 11:15 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB30-5N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-48** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 11:02 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB30-5S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-49** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 11:03 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB30-5S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627023-50** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 11:09 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB30-5S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-51** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 11:24 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB30-5E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-52** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 11:26 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB30-5E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-53** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 11:29 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB30-5E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-54** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 12:02 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB27-5E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-55** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 12:06 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB27-10S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-56** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 12:15 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB27-10S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627023-57** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 12:25 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB27-5E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-58** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 12:30 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB27-5E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-59** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 12:35 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB27-5E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-60** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 12:26 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB27-10W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-61** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 12:32 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB27-10W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-62** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 12:35 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB27-10W-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-63** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 15:45 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP2A-092416 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627023-64** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 15:47 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP2B-092416 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-65** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 15:49 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP2C-092416 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-66** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 13:07 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB27-5W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-67** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 13:10 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB27-5W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-68** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 13:21 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB27-5W-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-69** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 13:27 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB31-5E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-70** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 13:30 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB31-5E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627023-71** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 13:33 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB31-5E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-72** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 13:26 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB31-5W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-73** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 13:28 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB31-5W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-74** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 13:31 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB31-5W-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-75** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 13:40 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB31-5S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-76** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 13:41 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB31-5S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-77** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 13:39 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB31-10E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627023-78** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 13:42 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB31-10E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-79** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 13:44 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB31-10E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-80** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 13:52 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB31-10S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-81** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 13:53 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB31-10S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-82** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 13:54 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB31-10S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-83** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 14:01 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB34-5E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-84** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 14:05 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB34-5E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627023-85** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 14:07 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB34-5E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-86** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 14:15 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB34-5N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-87** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 14:18 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB34-5N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-88** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 14:21 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB34-5N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-89** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 14:24 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB34-10N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-90** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 14:26 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB34-10N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-91** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 14:29 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB34-10N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627023-92** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 14:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB34-10S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-93** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 14:02 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB34-10S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-94** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 14:09 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB34-10S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-95** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 14:16 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB34-5S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-96** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 14:18 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB34-5S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627023-97** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/24/2016 14:23 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB34-5S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1627023-07 | **Client Sample Name:** SB36-5S-00, 9/24/2016 8:19:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| **Chlordane (Technical)** | **0.0033** | **mg/kg** | **0.050** | **0.0015** | **EPA-8081A** | 2.5 | **J** | 1 |
| 4,4'-DDD | ND | mg/kg | 0.00050 | 0.000085 | EPA-8081A | 1.0 | | 1 |
| **4,4'-DDE** | **0.00095** | **mg/kg** | **0.00050** | **0.000083** | **EPA-8081A** | 1.0 | | 1 |
| **4,4'-DDT** | **0.0026** | **mg/kg** | **0.00050** | **0.000078** | **EPA-8081A** | 1.0 | | 1 |
| **Dieldrin** | **0.00095** | **mg/kg** | **0.00050** | **0.000070** | **EPA-8081A** | 8.0 | | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 28.3 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 29.1 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | S09 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/29/16 | 09/30/16 12:39 | HKS | GC-17 | 0.993 | BZJ0116 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-07 | **Client Sample Name:** SB36-5S-00, 9/24/2016 8:19:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **29** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/16/16 | 11/17/16 12:50 | JCC | PE-OP3 | 1 | BZK1606 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1627023-10 | **Client Sample Name:** SB36-5N-00, 9/24/2016 8:28:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0010 | 0.00013 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0010 | 0.00012 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0010 | 0.000068 | EPA-8081A | 4.0 | A10 | 1 |
| **Chlordane (Technical)** | **0.0040** | **mg/kg** | **0.10** | **0.0030** | **EPA-8081A** | 2.5 | **J,A10** | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 1.0 | A10 | 1 |
| **4,4'-DDE** | **0.0019** | **mg/kg** | **0.0010** | **0.00017** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **4,4'-DDT** | **0.0037** | **mg/kg** | **0.0010** | **0.00016** | **EPA-8081A** | 1.0 | **A10** | 1 |
| Dieldrin | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | 8.0 | A10 | 1 |
| Endosulfan I | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0010 | 0.00020 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0010 | 0.00019 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0010 | 0.00016 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.10 | 0.0026 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 39.5 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 47.7 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/29/16 | 09/30/16 12:53 | HKS | GC-17 | 1.980 | BZJ0116 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-10 | **Client Sample Name:** SB36-5N-00, 9/24/2016 8:28:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **40** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/16/16 | 11/17/16 13:00 | JCC | PE-OP3 | 0.990 | BZK1606 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-13 | **Client Sample Name:** SB26-10N-00, 9/24/2016 8:40:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **16** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **51** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/19/16 | 10/19/16 19:18 | JCC | PE-OP3 | 0.962 | BZJ1755 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1627023-18 | **Client Sample Name:** SB26-5S-00, 9/24/2016 8:59:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0010 | 0.00013 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0010 | 0.00012 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0010 | 0.000068 | EPA-8081A | 4.0 | A10 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.10 | 0.0030 | EPA-8081A | 2.5 | A10 | 1 |
| **4,4'-DDD** | **0.00077** | **mg/kg** | **0.0010** | **0.00017** | **EPA-8081A** | 1.0 | **J,A10** | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0010 | 0.00016 | EPA-8081A | 1.0 | A10 | 1 |
| **Dieldrin** | **0.00038** | **mg/kg** | **0.0010** | **0.00014** | **EPA-8081A** | 8.0 | **J,A10** | 1 |
| Endosulfan I | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0010 | 0.00020 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0010 | 0.00019 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0010 | 0.00016 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.10 | 0.0026 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 31.6 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 43.0 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/29/16 | 09/30/16 13:08 | HKS | GC-17 | 1.980 | BZJ0116 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-18 | **Client Sample Name:** SB26-5S-00, 9/24/2016 8:59:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **8.2** | **mg/kg** | **0.81** | **0.33** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **30** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 2 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 14:29 | JCC | PE-OP3 | 0.813 | BZI2684 |
| 2 | EPA-6010B | 11/16/16 | 11/17/16 13:04 | JCC | PE-OP3 | 0.971 | BZK1606 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1627023-21 | **Client Sample Name:** SB26-5N-00, 9/24/2016 9:10:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0025 | 0.00032 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0025 | 0.00036 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0025 | 0.00030 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0025 | 0.00017 | EPA-8081A | 4.0 | A10 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.25 | 0.0075 | EPA-8081A | 2.5 | A10 | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0025 | 0.00042 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0025 | 0.00042 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0025 | 0.00039 | EPA-8081A | 1.0 | A10 | 1 |
| **Dieldrin** | **0.00060** | **mg/kg** | **0.0025** | **0.00035** | **EPA-8081A** | 8.0 | **J,A10** | 1 |
| Endosulfan I | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0025 | 0.00050 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0025 | 0.00048 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0025 | 0.00039 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.25 | 0.0065 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 21.7 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 28.6 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10,S09 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/29/16 | 09/30/16 13:22 | HKS | GC-17 | 4.967 | BZJ0116 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-21 | **Client Sample Name:** SB26-5N-00, 9/24/2016 9:10:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **16** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **100** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 14:13 | JCC | PE-OP3 | 1 | BZI2684 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-22 | **Client Sample Name:** SB26-5N-12, 9/24/2016 9:14:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **8.5** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **2.3** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | **J** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/19/16 | 10/20/16 09:53 | JCC | PE-OP3 | 0.971 | BZJ1755 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1627023-26 | **Client Sample Name:** DUP1A-092416, 9/24/2016 3:30:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0010 | 0.00013 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0010 | 0.00012 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0010 | 0.000068 | EPA-8081A | 4.0 | A10 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.10 | 0.0030 | EPA-8081A | 2.5 | A10 | 1 |
| **4,4'-DDD** | **0.00036** | **mg/kg** | **0.0010** | **0.00017** | **EPA-8081A** | 1.0 | **J,A10** | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0010 | 0.00016 | EPA-8081A | 1.0 | A10 | 1 |
| **Dieldrin** | **0.00018** | **mg/kg** | **0.0010** | **0.00014** | **EPA-8081A** | 8.0 | **J,A10** | 1 |
| Endosulfan I | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0010 | 0.00020 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0010 | 0.00019 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0010 | 0.00016 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.10 | 0.0026 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 19.4 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10,S09 | 1 |
| Decachlorobiphenyl (Surrogate) | 27.2 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10,S09 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/29/16 | 09/30/16 13:37 | HKS | GC-17 | 1.967 | BZJ0116 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-26 | **Client Sample Name:** DUP1A-092416, 9/24/2016 3:30:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **10** | **mg/kg** | **0.61** | **0.24** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 14:30 | JCC | PE-OP3 | 0.606 | BZI2684 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-27 | **Client Sample Name:** SB25-10W-00, 9/24/2016 9:51:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **19** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/20/16 | 12/20/16 19:04 | JCC | PE-OP3 | 0.971 | BZL1679 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-28 | **Client Sample Name:** SB25-10W-12, 9/24/2016 9:53:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **27** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/30/16 | 01/03/17 13:37 | JCC | PE-OP3 | 1.852 | BZL2441 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-29 | **Client Sample Name:** SB25-10W-24, 9/24/2016 10:04:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **13** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 01/09/17 | 01/10/17 09:33 | JCC | PE-OP3 | 4.950 | B[A0495 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1627023-30 | **Client Sample Name:** SB25-5W-00, 9/24/2016 10:10:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.050 | 0.0015 | EPA-8081A | 2.5 | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.00050 | 0.000085 | EPA-8081A | 1.0 | | 1 |
| **4,4'-DDE** | **0.00073** | **mg/kg** | **0.00050** | **0.000083** | **EPA-8081A** | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | 1.0 | | 1 |
| **Dieldrin** | **0.00042** | **mg/kg** | **0.00050** | **0.000070** | **EPA-8081A** | 8.0 | **J** | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 39.7 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 48.4 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/29/16 | 09/30/16 13:51 | HKS | GC-17 | 0.993 | BZJ0116 |

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5001 Airport Plaza Drive, Suite 260
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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-30 | **Client Sample Name:** SB25-5W-00, 9/24/2016 10:10:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **11** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 14:31 | JCC | PE-OP3 | 1 | BZI2684 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-31 | **Client Sample Name:** SB25-5W-12, 9/24/2016 10:12:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **33** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/16/16 | 11/17/16 13:38 | JCC | PE-OP3 | 4.762 | BZK1606 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-32 | **Client Sample Name:** SB25-5W-24, 9/24/2016 10:21:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **35** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/16/16 | 11/17/16 13:07 | JCC | PE-OP3 | 0.943 | BZK1606 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1627023-33 | **Client Sample Name:** SB25-10E-00, 9/24/2016 9:51:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0010 | 0.00013 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0010 | 0.00012 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0010 | 0.000068 | EPA-8081A | 4.0 | A10 | 1 |
| **Chlordane (Technical)** | **0.55** | **mg/kg** | **0.10** | **0.0030** | **EPA-8081A** | 2.5 | **A10** | 1 |
| **4,4'-DDD** | **0.020** | **mg/kg** | **0.0050** | **0.00085** | **EPA-8081A** | 1.0 | **A01** | 2 |
| **4,4'-DDE** | **0.20** | **mg/kg** | **0.025** | **0.0042** | **EPA-8081A** | 1.0 | **A01** | 3 |
| **4,4'-DDT** | **0.041** | **mg/kg** | **0.0050** | **0.00078** | **EPA-8081A** | 1.0 | **A01** | 2 |
| **Dieldrin** | **0.011** | **mg/kg** | **0.0010** | **0.00014** | **EPA-8081A** | 8.0 | **A10** | 1 |
| Endosulfan I | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0010 | 0.00020 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0010 | 0.00019 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0010 | 0.00016 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.10 | 0.0026 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 54.7 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 46.3 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 10/07/16 | 10/10/16 15:25 | HKS | GC-17 | 2.007 | BZJ0804 |
| 2 | EPA-8081A | 10/07/16 | 10/11/16 15:46 | HKS | GC-17 | 10.033 | BZJ0804 |
| 3 | EPA-8081A | 10/07/16 | 10/11/16 16:01 | HKS | GC-17 | 50.167 | BZJ0804 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-33 | **Client Sample Name:** SB25-10E-00, 9/24/2016 9:51:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **16** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/20/16 | 12/20/16 19:05 | JCC | PE-OP3 | 0.935 | BZL1679 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1627023-34 | **Client Sample Name:** SB25-10E-12, 9/24/2016 9:55:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 1.4 | A10,S05 | 1 |
| alpha-BHC | ND | mg/kg | 0.0025 | 0.00032 | EPA-8081A | | A10,S05 | 1 |
| beta-BHC | ND | mg/kg | 0.0025 | 0.00036 | EPA-8081A | | A10,S05 | 1 |
| delta-BHC | ND | mg/kg | 0.0025 | 0.00030 | EPA-8081A | | A10,S05 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0025 | 0.00017 | EPA-8081A | 4.0 | A10,S05 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.25 | 0.0075 | EPA-8081A | 2.5 | A10,S05 | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0025 | 0.00042 | EPA-8081A | 1.0 | A10,S05 | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0025 | 0.00042 | EPA-8081A | 1.0 | A10,S05 | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0025 | 0.00039 | EPA-8081A | 1.0 | A10,S05 | 1 |
| Dieldrin | ND | mg/kg | 0.0025 | 0.00035 | EPA-8081A | 8.0 | A10,S05 | 1 |
| Endosulfan I | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | | A10,S05 | 1 |
| Endosulfan II | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | | A10,S05 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0025 | 0.00050 | EPA-8081A | | A10,S05 | 1 |
| Endrin | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | 0.2 | A10,S05 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0025 | 0.00048 | EPA-8081A | | A10,S05 | 1 |
| Heptachlor | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 4.7 | A10,S05 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0025 | 0.00039 | EPA-8081A | | A10,S05 | 1 |
| Methoxychlor | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | 100 | A10,S05 | 1 |
| Toxaphene | ND | mg/kg | 0.25 | 0.0065 | EPA-8081A | 5 | A10,S05 | 1 |
| TCMX (Surrogate) | 62.6 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10,S05 | 1 |
| Decachlorobiphenyl (Surrogate) | 53.0 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10,S05 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 11/16/16 | 11/23/16 03:30 | HKS | GC-17 | 5.085 | BZK1571 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-34 | **Client Sample Name:** SB25-10E-12, 9/24/2016 9:55:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **19** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/30/16 | 01/03/17 13:39 | JCC | PE-OP3 | 1.942 | BZL2441 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-35 | **Client Sample Name:** SB25-10E-24, 9/24/2016 10:10:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **14** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 01/09/17 | 01/10/17 09:38 | JCC | PE-OP3 | 4.717 | B[A0495 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1627023-36 | **Client Sample Name:** SB25-5E-00, 9/24/2016 10:16:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0050 | 0.00055 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0050 | 0.00064 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0050 | 0.00071 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0050 | 0.00059 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0050 | 0.00034 | EPA-8081A | 4.0 | A10 | 1 |
| **Chlordane (Technical)** | **0.96** | **mg/kg** | **0.50** | **0.015** | **EPA-8081A** | 2.5 | **A10** | 1 |
| **4,4'-DDD** | **0.034** | **mg/kg** | **0.0050** | **0.00085** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **4,4'-DDE** | **0.36** | **mg/kg** | **0.025** | **0.0042** | **EPA-8081A** | 1.0 | | 2 |
| **4,4'-DDT** | **0.056** | **mg/kg** | **0.0050** | **0.00078** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **Dieldrin** | **0.037** | **mg/kg** | **0.0050** | **0.00070** | **EPA-8081A** | 8.0 | **A10** | 1 |
| Endosulfan I | ND | mg/kg | 0.0050 | 0.00087 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0050 | 0.0011 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0050 | 0.00099 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0050 | 0.00087 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0050 | 0.00097 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0050 | 0.00057 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0050 | 0.00078 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0050 | 0.0011 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.50 | 0.013 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 49.6 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 60.5 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/29/16 | 09/30/16 15:04 | HKS | GC-17 | 9.934 | BZJ0116 |
| 2 | EPA-8081A | 09/29/16 | 10/03/16 13:02 | HKS | GC-17 | 49.669 | BZJ0116 |

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5001 Airport Plaza Drive, Suite 260
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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-36 | **Client Sample Name:** SB25-5E-00, 9/24/2016 10:16:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **11** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 14:33 | JCC | PE-OP3 | 0.971 | BZI2684 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1627023-37 | **Client Sample Name:** SB25-5E-12, 9/24/2016 10:21:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0010 | 0.00013 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0010 | 0.00012 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0010 | 0.000068 | EPA-8081A | 4.0 | A10 | 1 |
| **Chlordane (Technical)** | **0.041** | **mg/kg** | **0.10** | **0.0030** | **EPA-8081A** | 2.5 | **J,A10** | 1 |
| **4,4'-DDD** | **0.0011** | **mg/kg** | **0.0010** | **0.00017** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **4,4'-DDE** | **0.0089** | **mg/kg** | **0.0010** | **0.00017** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **4,4'-DDT** | **0.0022** | **mg/kg** | **0.0010** | **0.00016** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **Dieldrin** | **0.0011** | **mg/kg** | **0.0010** | **0.00014** | **EPA-8081A** | 8.0 | **A10** | 1 |
| Endosulfan I | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0010 | 0.00020 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0010 | 0.00019 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0010 | 0.00016 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.10 | 0.0026 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 54.5 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 44.4 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 10/07/16 | 10/10/16 15:39 | HKS | GC-17 | 2 | BZJ0804 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-37 | **Client Sample Name:** SB25-5E-12, 9/24/2016 10:21:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **18** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/16/16 | 11/17/16 13:40 | JCC | PE-OP3 | 1.905 | BZK1606 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1627023-45 | **Client Sample Name:** SB30-5N-00, 9/24/2016 11:09:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0050 | 0.00055 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0050 | 0.00064 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0050 | 0.00071 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0050 | 0.00059 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0050 | 0.00034 | EPA-8081A | 4.0 | A10 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.50 | 0.015 | EPA-8081A | 2.5 | A10 | 1 |
| **4,4'-DDD** | **0.0020** | **mg/kg** | **0.0050** | **0.00085** | **EPA-8081A** | 1.0 | **J,A10** | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0050 | 0.00083 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0050 | 0.00078 | EPA-8081A | 1.0 | A10 | 1 |
| **Dieldrin** | **0.00072** | **mg/kg** | **0.0050** | **0.00070** | **EPA-8081A** | 8.0 | **J,A10** | 1 |
| Endosulfan I | ND | mg/kg | 0.0050 | 0.00087 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0050 | 0.0011 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0050 | 0.00099 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0050 | 0.00087 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0050 | 0.00097 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0050 | 0.00057 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0050 | 0.00078 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0050 | 0.0011 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.50 | 0.013 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 54.0 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 55.0 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/29/16 | 09/30/16 15:19 | HKS | GC-17 | 9.901 | BZJ0116 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1627023-48 | **Client Sample Name:** SB30-5S-00, 9/24/2016 11:02:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0050 | 0.00055 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0050 | 0.00064 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0050 | 0.00071 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0050 | 0.00059 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0050 | 0.00034 | EPA-8081A | 4.0 | A10 | 1 |
| **Chlordane (Technical)** | **0.040** | **mg/kg** | **0.50** | **0.015** | **EPA-8081A** | 2.5 | **J,A10** | 1 |
| **4,4'-DDD** | **0.013** | **mg/kg** | **0.0050** | **0.00085** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **4,4'-DDE** | **0.0020** | **mg/kg** | **0.0050** | **0.00083** | **EPA-8081A** | 1.0 | **J,A10** | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0050 | 0.00078 | EPA-8081A | 1.0 | A10 | 1 |
| **Dieldrin** | **0.0058** | **mg/kg** | **0.0050** | **0.00070** | **EPA-8081A** | 8.0 | **A10** | 1 |
| Endosulfan I | ND | mg/kg | 0.0050 | 0.00087 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0050 | 0.0011 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0050 | 0.00099 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0050 | 0.00087 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0050 | 0.00097 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0050 | 0.00057 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0050 | 0.00078 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0050 | 0.0011 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.50 | 0.013 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 68.7 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 68.7 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/29/16 | 09/30/16 15:33 | HKS | GC-17 | 9.934 | BZJ0116 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1627023-51 | **Client Sample Name:** SB30-5E-00, 9/24/2016 11:24:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0025 | 0.00032 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0025 | 0.00036 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0025 | 0.00030 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0025 | 0.00017 | EPA-8081A | 4.0 | A10 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.25 | 0.0075 | EPA-8081A | 2.5 | A10 | 1 |
| **4,4'-DDD** | **0.0022** | **mg/kg** | **0.0025** | **0.00042** | **EPA-8081A** | 1.0 | **J,A10** | 1 |
| **4,4'-DDE** | **0.00045** | **mg/kg** | **0.0025** | **0.00042** | **EPA-8081A** | 1.0 | **J,A10** | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0025 | 0.00039 | EPA-8081A | 1.0 | A10 | 1 |
| **Dieldrin** | **0.00080** | **mg/kg** | **0.0025** | **0.00035** | **EPA-8081A** | 8.0 | **J,A10** | 1 |
| Endosulfan I | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0025 | 0.00050 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0025 | 0.00048 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0025 | 0.00039 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.25 | 0.0065 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 56.2 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 53.6 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/29/16 | 09/30/16 15:48 | HKS | GC-17 | 5 | BZJ0116 |

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Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-54 | **Client Sample Name:** SB27-5E-00, 9/24/2016 12:02:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **8.7** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 14:34 | JCC | PE-OP3 | 0.971 | BZI2684 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-55 | **Client Sample Name:** SB27-10S-00, 9/24/2016 12:06:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **6.6** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/20/16 | 12/20/16 19:06 | JCC | PE-OP3 | 0.952 | BZL1679 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-57 | **Client Sample Name:** SB27-5E-00, 9/24/2016 12:25:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **8.4** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 14:35 | JCC | PE-OP3 | 0.980 | BZI2684 |

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5001 Airport Plaza Drive, Suite 260
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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-58 | **Client Sample Name:** SB27-5E-12, 9/24/2016 12:30:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **6.3** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/16/16 | 11/17/16 13:10 | JCC | PE-OP3 | 0.917 | BZK1606 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-59 | **Client Sample Name:** SB27-5E-24, 9/24/2016 12:35:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **8.2** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/16/16 | 11/17/16 13:11 | JCC | PE-OP3 | 0.990 | BZK1606 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-60 | **Client Sample Name:** SB27-10W-00, 9/24/2016 12:26:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **8.4** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/19/16 | 10/19/16 19:21 | JCC | PE-OP3 | 0.990 | BZJ1755 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-61 | **Client Sample Name:** SB27-10W-12, 9/24/2016 12:32:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **8.9** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/16/16 | 11/17/16 13:12 | JCC | PE-OP3 | 0.935 | BZK1606 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-63 | **Client Sample Name:** DUP2A-092416, 9/24/2016 3:45:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **6.0** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 14:37 | JCC | PE-OP3 | 0.990 | BZI2684 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-66 | **Client Sample Name:** SB27-5W-00, 9/24/2016 1:07:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **14** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/30/16 | 09/30/16 16:51 | JRG | PE-OP2 | 0.917 | BZI2802 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-67 | **Client Sample Name:** SB27-5W-12, 9/24/2016 1:10:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **16** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/19/16 | 10/19/16 19:22 | JCC | PE-OP3 | 0.952 | BZJ1755 |

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Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-68 | **Client Sample Name:** SB27-5W-24, 9/24/2016 1:21:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **15** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/16/16 | 11/17/16 13:42 | JCC | PE-OP3 | 4.630 | BZK1606 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1627023-69 | **Client Sample Name:** SB31-5E-00, 9/24/2016 1:27:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0025 | 0.00032 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0025 | 0.00036 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0025 | 0.00030 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0025 | 0.00017 | EPA-8081A | 4.0 | A10 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.25 | 0.0075 | EPA-8081A | 2.5 | A10 | 1 |
| **4,4'-DDD** | **0.031** | **mg/kg** | **0.0025** | **0.00042** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **4,4'-DDE** | **0.023** | **mg/kg** | **0.0025** | **0.00042** | **EPA-8081A** | 1.0 | **A10** | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0025 | 0.00039 | EPA-8081A | 1.0 | A10 | 1 |
| **Dieldrin** | **0.076** | **mg/kg** | **0.0050** | **0.00070** | **EPA-8081A** | 8.0 | | 2 |
| Endosulfan I | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0025 | 0.00050 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0025 | 0.00048 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0025 | 0.00039 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.25 | 0.0065 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 36.7 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 34.6 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10,S09 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/29/16 | 09/30/16 16:02 | HKS | GC-17 | 4.918 | BZJ0116 |
| 2 | EPA-8081A | 09/29/16 | 10/03/16 13:17 | HKS | GC-17 | 9.836 | BZJ0116 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-69 | **Client Sample Name:** SB31-5E-00, 9/24/2016 1:27:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **130** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/16/16 | 11/17/16 13:15 | JCC | PE-OP3 | 0.962 | BZK1606 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1627023-70 | **Client Sample Name:** SB31-5E-12, 9/24/2016 1:30:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.00050 | 0.000055 | EPA-8081A | 1.4 | | 1 |
| alpha-BHC | ND | mg/kg | 0.00050 | 0.000064 | EPA-8081A | | | 1 |
| beta-BHC | ND | mg/kg | 0.00050 | 0.000071 | EPA-8081A | | | 1 |
| delta-BHC | ND | mg/kg | 0.00050 | 0.000059 | EPA-8081A | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.00050 | 0.000034 | EPA-8081A | 4.0 | | 1 |
| **Chlordane (Technical)** | **0.0094** | **mg/kg** | **0.050** | **0.0015** | **EPA-8081A** | 2.5 | **J** | 1 |
| 4,4'-DDD | ND | mg/kg | 0.00050 | 0.000085 | EPA-8081A | 1.0 | | 1 |
| **4,4'-DDE** | **0.00018** | **mg/kg** | **0.00050** | **0.000083** | **EPA-8081A** | 1.0 | **J** | 1 |
| 4,4'-DDT | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | 1.0 | | 1 |
| **Dieldrin** | **0.00018** | **mg/kg** | **0.00050** | **0.000070** | **EPA-8081A** | 8.0 | **J** | 1 |
| Endosulfan I | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | | | 1 |
| Endosulfan II | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.00050 | 0.000099 | EPA-8081A | | | 1 |
| Endrin | ND | mg/kg | 0.00050 | 0.000087 | EPA-8081A | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.00050 | 0.000097 | EPA-8081A | | | 1 |
| Heptachlor | ND | mg/kg | 0.00050 | 0.000057 | EPA-8081A | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.00050 | 0.000078 | EPA-8081A | | | 1 |
| Methoxychlor | ND | mg/kg | 0.00050 | 0.00011 | EPA-8081A | 100 | | 1 |
| Toxaphene | ND | mg/kg | 0.050 | 0.0013 | EPA-8081A | 5 | | 1 |
| TCMX (Surrogate) | 47.6 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |
| Decachlorobiphenyl (Surrogate) | 44.1 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 10/07/16 | 10/10/16 15:54 | HKS | GC-17 | 1.003 | BZJ0804 |

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Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-70 | **Client Sample Name:** SB31-5E-12, 9/24/2016 1:30:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **5.8** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/20/16 | 12/20/16 19:13 | JCC | PE-OP3 | 0.990 | BZL1679 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1627023-72 | **Client Sample Name:** SB31-5W-00, 9/24/2016 1:26:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0025 | 0.00032 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0025 | 0.00036 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0025 | 0.00030 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0025 | 0.00017 | EPA-8081A | 4.0 | A10 | 1 |
| **Chlordane (Technical)** | **0.021** | **mg/kg** | **0.25** | **0.0075** | **EPA-8081A** | 2.5 | **J,A10** | 1 |
| **4,4'-DDD** | **0.0058** | **mg/kg** | **0.0025** | **0.00042** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **4,4'-DDE** | **0.0090** | **mg/kg** | **0.0025** | **0.00042** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **4,4'-DDT** | **0.0085** | **mg/kg** | **0.0025** | **0.00039** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **Dieldrin** | **0.020** | **mg/kg** | **0.0025** | **0.00035** | **EPA-8081A** | 8.0 | **A10** | 1 |
| Endosulfan I | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0025 | 0.00050 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0025 | 0.00048 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0025 | 0.00039 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.25 | 0.0065 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 75.2 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 76.6 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/29/16 | 09/30/16 16:17 | HKS | GC-17 | 4.950 | BZJ0116 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-72 | **Client Sample Name:** SB31-5W-00, 9/24/2016 1:26:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **21** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/16/16 | 11/17/16 13:22 | JCC | PE-OP3 | 0.980 | BZK1606 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1627023-75 | **Client Sample Name:** SB31-5S-00, 9/24/2016 1:40:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0025 | 0.00032 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0025 | 0.00036 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0025 | 0.00030 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0025 | 0.00017 | EPA-8081A | 4.0 | A10 | 1 |
| **Chlordane (Technical)** | **0.035** | **mg/kg** | **0.25** | **0.0075** | **EPA-8081A** | 2.5 | **J,A10** | 1 |
| **4,4'-DDD** | **0.0058** | **mg/kg** | **0.0025** | **0.00042** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **4,4'-DDE** | **0.0080** | **mg/kg** | **0.0025** | **0.00042** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **4,4'-DDT** | **0.0084** | **mg/kg** | **0.0025** | **0.00039** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **Dieldrin** | **0.025** | **mg/kg** | **0.0025** | **0.00035** | **EPA-8081A** | 8.0 | **A10** | 1 |
| Endosulfan I | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0025 | 0.00050 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0025 | 0.00048 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0025 | 0.00039 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.25 | 0.0065 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 83.9 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 84.8 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/29/16 | 09/30/16 16:31 | HKS | GC-17 | 4.983 | BZJ0116 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-75 | **Client Sample Name:** SB31-5S-00, 9/24/2016 1:40:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **14** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/16/16 | 11/17/16 13:23 | JCC | PE-OP3 | 0.971 | BZK1606 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1627023-77 | **Client Sample Name:** SB31-10E-00, 9/24/2016 1:39:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0010 | 0.00013 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0010 | 0.00012 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0010 | 0.000068 | EPA-8081A | 4.0 | A10 | 1 |
| **Chlordane (Technical)** | **0.17** | **mg/kg** | **0.10** | **0.0030** | **EPA-8081A** | 2.5 | **A10** | 1 |
| **4,4'-DDD** | **0.0067** | **mg/kg** | **0.0010** | **0.00017** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **4,4'-DDE** | **0.0043** | **mg/kg** | **0.0010** | **0.00017** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **4,4'-DDT** | **0.0070** | **mg/kg** | **0.0010** | **0.00016** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **Dieldrin** | **0.011** | **mg/kg** | **0.0010** | **0.00014** | **EPA-8081A** | 8.0 | **A10** | 1 |
| Endosulfan I | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0010 | 0.00020 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0010 | 0.00019 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0010 | 0.00016 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.10 | 0.0026 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 83.4 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 67.0 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 10/07/16 | 10/10/16 16:08 | HKS | GC-17 | 1.987 | BZJ0804 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-77 | **Client Sample Name:** SB31-10E-00, 9/24/2016 1:39:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **46** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/20/16 | 12/20/16 19:14 | JCC | PE-OP3 | 0.926 | BZL1679 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-81 | **Client Sample Name:** SB31-10S-12, 9/24/2016 1:53:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **6.7** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/30/16 | 01/03/17 12:38 | JCC | PE-OP3 | 0.935 | BZL2441 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-83 | **Client Sample Name:** SB34-5E-00, 9/24/2016 2:01:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **26** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/16/16 | 11/17/16 13:25 | JCC | PE-OP3 | 0.943 | BZK1606 |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-86 | **Client Sample Name:** SB34-5N-00, 9/24/2016 2:15:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **77** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/16/16 | 11/17/16 13:26 | JCC | PE-OP3 | 0.935 | BZK1606 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-92 | **Client Sample Name:** SB34-10S-00, 9/24/2016 2:00:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **150** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/20/16 | 12/20/16 19:15 | JCC | PE-OP3 | 0.943 | BZL1679 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-93 | **Client Sample Name:** SB34-10S-12, 9/24/2016 2:02:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **92** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 01/09/17 | 01/10/17 09:40 | JCC | PE-OP3 | 0.971 | B[A0495 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-94 | **Client Sample Name:** SB34-10S-24, 9/24/2016 2:09:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **15** | **mg/kg** | **25** | **2.8** | **EPA-6010B** | 1000 | **J,A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 01/11/17 | 01/12/17 12:35 | JCC | PE-OP3 | 9.615 | B[A0800 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-95 | **Client Sample Name:** SB34-5S-00, 9/24/2016 2:16:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **200** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/16/16 | 11/17/16 13:27 | JCC | PE-OP3 | 0.962 | BZK1606 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627023-96 | **Client Sample Name:** SB34-5S-12, 9/24/2016 2:18:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **17** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/20/16 | 12/20/16 19:17 | JCC | PE-OP3 | 0.971 | BZL1679 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZJ0116** | | | | | | |
| Aldrin | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000055 | |
| alpha-BHC | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000064 | |
| beta-BHC | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000071 | |
| delta-BHC | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000059 | |
| gamma-BHC (Lindane) | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000034 | |
| Chlordane (Technical) | BZJ0116-BLK1 | ND | mg/kg | 0.050 | 0.0015 | |
| 4,4'-DDD | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000085 | |
| 4,4'-DDE | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000083 | |
| 4,4'-DDT | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000078 | |
| Dieldrin | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000070 | |
| Endosulfan I | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000087 | |
| Endosulfan II | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.00011 | |
| Endosulfan sulfate | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000099 | |
| Endrin | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000087 | |
| Endrin aldehyde | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000097 | |
| Heptachlor | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000057 | |
| Heptachlor epoxide | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000078 | |
| Methoxychlor | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.00011 | |
| Toxaphene | BZJ0116-BLK1 | ND | mg/kg | 0.050 | 0.0013 | |
| **TCMX (Surrogate)** | **BZJ0116-BLK1** | **90.3** | % | **20 - 130 (LCL - UCL)** | | |
| **Decachlorobiphenyl (Surrogate)** | **BZJ0116-BLK1** | **99.0** | % | **40 - 130 (LCL - UCL)** | | |
| **QC Batch ID: BZJ0804** | | | | | | |
| Aldrin | BZJ0804-BLK1 | ND | mg/kg | 0.00050 | 0.000055 | |
| alpha-BHC | BZJ0804-BLK1 | ND | mg/kg | 0.00050 | 0.000064 | |
| beta-BHC | BZJ0804-BLK1 | ND | mg/kg | 0.00050 | 0.000071 | |
| delta-BHC | BZJ0804-BLK1 | ND | mg/kg | 0.00050 | 0.000059 | |
| gamma-BHC (Lindane) | BZJ0804-BLK1 | ND | mg/kg | 0.00050 | 0.000034 | |
| Chlordane (Technical) | BZJ0804-BLK1 | ND | mg/kg | 0.050 | 0.0015 | |
| 4,4'-DDD | BZJ0804-BLK1 | ND | mg/kg | 0.00050 | 0.000085 | |
| 4,4'-DDE | BZJ0804-BLK1 | ND | mg/kg | 0.00050 | 0.000083 | |
| 4,4'-DDT | BZJ0804-BLK1 | ND | mg/kg | 0.00050 | 0.000078 | |
| Dieldrin | BZJ0804-BLK1 | ND | mg/kg | 0.00050 | 0.000070 | |
| Endosulfan I | BZJ0804-BLK1 | ND | mg/kg | 0.00050 | 0.000087 | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZJ0804** | | | | | | |
| Endosulfan II | BZJ0804-BLK1 | ND | mg/kg | 0.00050 | 0.00011 | |
| Endosulfan sulfate | BZJ0804-BLK1 | ND | mg/kg | 0.00050 | 0.000099 | |
| Endrin | BZJ0804-BLK1 | ND | mg/kg | 0.00050 | 0.000087 | |
| Endrin aldehyde | BZJ0804-BLK1 | ND | mg/kg | 0.00050 | 0.000097 | |
| Heptachlor | BZJ0804-BLK1 | ND | mg/kg | 0.00050 | 0.000057 | |
| Heptachlor epoxide | BZJ0804-BLK1 | ND | mg/kg | 0.00050 | 0.000078 | |
| Methoxychlor | BZJ0804-BLK1 | ND | mg/kg | 0.00050 | 0.00011 | |
| Toxaphene | BZJ0804-BLK1 | ND | mg/kg | 0.050 | 0.0013 | |
| **TCMX (Surrogate)** | **BZJ0804-BLK1** | **109** | % | **20 - 130 (LCL - UCL)** | | |
| **Decachlorobiphenyl (Surrogate)** | **BZJ0804-BLK1** | **93.9** | % | **40 - 130 (LCL - UCL)** | | |
| **QC Batch ID: BZK1571** | | | | | | |
| Aldrin | BZK1571-BLK1 | ND | mg/kg | 0.00050 | 0.000055 | |
| alpha-BHC | BZK1571-BLK1 | ND | mg/kg | 0.00050 | 0.000064 | |
| beta-BHC | BZK1571-BLK1 | ND | mg/kg | 0.00050 | 0.000071 | |
| delta-BHC | BZK1571-BLK1 | ND | mg/kg | 0.00050 | 0.000059 | |
| gamma-BHC (Lindane) | BZK1571-BLK1 | ND | mg/kg | 0.00050 | 0.000034 | |
| Chlordane (Technical) | BZK1571-BLK1 | ND | mg/kg | 0.050 | 0.0015 | |
| 4,4'-DDD | BZK1571-BLK1 | ND | mg/kg | 0.00050 | 0.000085 | |
| 4,4'-DDE | BZK1571-BLK1 | ND | mg/kg | 0.00050 | 0.000083 | |
| 4,4'-DDT | BZK1571-BLK1 | ND | mg/kg | 0.00050 | 0.000078 | |
| Dieldrin | BZK1571-BLK1 | ND | mg/kg | 0.00050 | 0.000070 | |
| Endosulfan I | BZK1571-BLK1 | ND | mg/kg | 0.00050 | 0.000087 | |
| Endosulfan II | BZK1571-BLK1 | ND | mg/kg | 0.00050 | 0.00011 | |
| Endosulfan sulfate | BZK1571-BLK1 | ND | mg/kg | 0.00050 | 0.000099 | |
| Endrin | BZK1571-BLK1 | ND | mg/kg | 0.00050 | 0.000087 | |
| Endrin aldehyde | BZK1571-BLK1 | ND | mg/kg | 0.00050 | 0.000097 | |
| Heptachlor | BZK1571-BLK1 | ND | mg/kg | 0.00050 | 0.000057 | |
| Heptachlor epoxide | BZK1571-BLK1 | ND | mg/kg | 0.00050 | 0.000078 | |
| Methoxychlor | BZK1571-BLK1 | ND | mg/kg | 0.00050 | 0.00011 | |
| Toxaphene | BZK1571-BLK1 | ND | mg/kg | 0.050 | 0.0013 | |
| **TCMX (Surrogate)** | **BZK1571-BLK1** | **82.4** | % | **20 - 130 (LCL - UCL)** | | |
| **Decachlorobiphenyl (Surrogate)** | **BZK1571-BLK1** | **82.6** | % | **40 - 130 (LCL - UCL)** | | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZJ0116** | | | | | | | | | | |
| Aldrin | BZJ0116-BS1 | LCS | 0.0044893 | 0.0050167 | mg/kg | 89.5 | | 70 - 130 | | |
| gamma-BHC (Lindane) | BZJ0116-BS1 | LCS | 0.0044900 | 0.0050167 | mg/kg | 89.5 | | 60 - 140 | | |
| 4,4'-DDT | BZJ0116-BS1 | LCS | 0.0057054 | 0.0050167 | mg/kg | 114 | | 60 - 140 | | |
| Dieldrin | BZJ0116-BS1 | LCS | 0.0043676 | 0.0050167 | mg/kg | 87.1 | | 70 - 130 | | |
| Endrin | BZJ0116-BS1 | LCS | 0.0044843 | 0.0050167 | mg/kg | 89.4 | | 60 - 140 | | |
| Heptachlor | BZJ0116-BS1 | LCS | 0.0046759 | 0.0050167 | mg/kg | 93.2 | | 60 - 140 | | |
| TCMX (Surrogate) | BZJ0116-BS1 | LCS | 0.0081298 | 0.010033 | mg/kg | 81.0 | | 20 - 130 | | |
| Decachlorobiphenyl (Surrogate) | BZJ0116-BS1 | LCS | 0.019744 | 0.020067 | mg/kg | 98.4 | | 40 - 130 | | |
| **QC Batch ID: BZJ0804** | | | | | | | | | | |
| Aldrin | BZJ0804-BS1 | LCS | 0.0043650 | 0.0050505 | mg/kg | 86.4 | | 70 - 130 | | |
| gamma-BHC (Lindane) | BZJ0804-BS1 | LCS | 0.0052182 | 0.0050505 | mg/kg | 103 | | 60 - 140 | | |
| 4,4'-DDT | BZJ0804-BS1 | LCS | 0.0067468 | 0.0050505 | mg/kg | 134 | | 60 - 140 | | |
| Dieldrin | BZJ0804-BS1 | LCS | 0.0047990 | 0.0050505 | mg/kg | 95.0 | | 70 - 130 | | |
| Endrin | BZJ0804-BS1 | LCS | 0.0046771 | 0.0050505 | mg/kg | 92.6 | | 60 - 140 | | |
| Heptachlor | BZJ0804-BS1 | LCS | 0.0047269 | 0.0050505 | mg/kg | 93.6 | | 60 - 140 | | |
| TCMX (Surrogate) | BZJ0804-BS1 | LCS | 0.0090003 | 0.010101 | mg/kg | 89.1 | | 20 - 130 | | |
| Decachlorobiphenyl (Surrogate) | BZJ0804-BS1 | LCS | 0.019287 | 0.020202 | mg/kg | 95.5 | | 40 - 130 | | |
| **QC Batch ID: BZK1571** | | | | | | | | | | |
| Aldrin | BZK1571-BS1 | LCS | 0.0042341 | 0.0049669 | mg/kg | 85.2 | | 70 - 130 | | |
| gamma-BHC (Lindane) | BZK1571-BS1 | LCS | 0.0044636 | 0.0049669 | mg/kg | 89.9 | | 60 - 140 | | |
| 4,4'-DDT | BZK1571-BS1 | LCS | 0.0050877 | 0.0049669 | mg/kg | 102 | | 60 - 140 | | |
| Dieldrin | BZK1571-BS1 | LCS | 0.0041884 | 0.0049669 | mg/kg | 84.3 | | 70 - 130 | | |
| Endrin | BZK1571-BS1 | LCS | 0.0051679 | 0.0049669 | mg/kg | 104 | | 60 - 140 | | |
| Heptachlor | BZK1571-BS1 | LCS | 0.0045311 | 0.0049669 | mg/kg | 91.2 | | 60 - 140 | | |
| TCMX (Surrogate) | BZK1571-BS1 | LCS | 0.0083768 | 0.0099338 | mg/kg | 84.3 | | 20 - 130 | | |
| Decachlorobiphenyl (Surrogate) | BZK1571-BS1 | LCS | 0.015952 | 0.019868 | mg/kg | 80.3 | | 40 - 130 | | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZJ0116** | Used client sample: Y - Description: SB36-5S-00, 09/24/2016 08:19 | | | | | | | | | | |
| **Aldrin** | MS | **1627023-07** | **ND** | **0.0024436** | **0.0050676** | **mg/kg** | | **48.2** | | **50 - 140** | **Q03** |
| | MSD | **1627023-07** | **ND** | **0.0023732** | **0.0049669** | **mg/kg** | **2.9** | **47.8** | **30** | **50 - 140** | **Q03** |
| **gamma-BHC (Lindane)** | MS | **1627023-07** | **ND** | **0.0022361** | **0.0050676** | **mg/kg** | | **44.1** | | **50 - 140** | **Q03** |
| | MSD | **1627023-07** | **ND** | **0.0021656** | **0.0049669** | **mg/kg** | **3.2** | **43.6** | **30** | **50 - 140** | **Q03** |
| **4,4'-DDT** | MS | **1627023-07** | **0.0026013** | **0.0047409** | **0.0050676** | **mg/kg** | | **42.2** | | **50 - 140** | **Q03** |
| | MSD | **1627023-07** | **0.0026013** | **0.0043182** | **0.0049669** | **mg/kg** | **9.3** | **34.6** | **30** | **50 - 140** | **Q03** |
| **Dieldrin** | MS | **1627023-07** | **0.00094868** | **0.0027436** | **0.0050676** | **mg/kg** | | **35.4** | | **40 - 140** | **Q03** |
| | MSD | **1627023-07** | **0.00094868** | **0.0026146** | **0.0049669** | **mg/kg** | **4.8** | **33.5** | **30** | **40 - 140** | **Q03** |
| Endrin | MS | 1627023-07 | ND | 0.0035564 | 0.0050676 | mg/kg | | 70.2 | | 50 - 150 | |
| | MSD | 1627023-07 | ND | 0.0033401 | 0.0049669 | mg/kg | 6.3 | 67.2 | 30 | 50 - 150 | |
| **Heptachlor** | MS | **1627023-07** | **ND** | **0.0021017** | **0.0050676** | **mg/kg** | | **41.5** | | **60 - 140** | **Q03** |
| | MSD | **1627023-07** | **ND** | **0.0020060** | **0.0049669** | **mg/kg** | **4.7** | **40.4** | **30** | **60 - 140** | **Q03** |
| TCMX (Surrogate) | MS | 1627023-07 | ND | 0.0038601 | 0.010135 | mg/kg | | 38.1 | | 20 - 130 | |
| | MSD | 1627023-07 | ND | 0.0037401 | 0.0099338 | mg/kg | 3.2 | 37.7 | | 20 - 130 | |
| Decachlorobiphenyl (Surrogate) | MS | 1627023-07 | ND | 0.0094584 | 0.020270 | mg/kg | | 46.7 | | 40 - 130 | |
| | MSD | 1627023-07 | ND | 0.0083699 | 0.019868 | mg/kg | 12.2 | 42.1 | | 40 - 130 | |
| **QC Batch ID: BZJ0804** | Used client sample: Y - Description: SB25-10E-00, 09/24/2016 09:51 | | | | | | | | | | |
| Aldrin | MS | 1627023-33 | ND | 0.0037033 | 0.0049669 | mg/kg | | 74.6 | | 50 - 140 | |
| | MSD | 1627023-33 | ND | 0.0038319 | 0.0050847 | mg/kg | 3.4 | 75.4 | 30 | 50 - 140 | |
| gamma-BHC (Lindane) | MS | 1627023-33 | ND | 0.0035954 | 0.0049669 | mg/kg | | 72.4 | | 50 - 140 | |
| | MSD | 1627023-33 | ND | 0.0037797 | 0.0050847 | mg/kg | 5.0 | 74.3 | 30 | 50 - 140 | |
| **4,4'-DDT** | MS | **1627023-33** | **0.025847** | **0.037159** | **0.0049669** | **mg/kg** | | **228** | | **50 - 140** | **Q03** |
| | MSD | **1627023-33** | **0.025847** | **0.038649** | **0.0050847** | **mg/kg** | **3.9** | **252** | **30** | **50 - 140** | **Q03** |
| **Dieldrin** | MS | **1627023-33** | **0.010756** | **0.023495** | **0.0049669** | **mg/kg** | | **256** | | **40 - 140** | **Q03** |
| | MSD | **1627023-33** | **0.010756** | **0.024608** | **0.0050847** | **mg/kg** | **4.6** | **272** | **30** | **40 - 140** | **Q03** |
| **Endrin** | MS | **1627023-33** | **ND** | **0.042483** | **0.0049669** | **mg/kg** | | **855** | | **50 - 150** | **Q03** |
| | MSD | **1627023-33** | **ND** | **0.060713** | **0.0050847** | **mg/kg** | **35.3** | **1190** | **30** | **50 - 150** | **Q03** |
| Heptachlor | MS | 1627023-33 | ND | 0.0043060 | 0.0049669 | mg/kg | | 86.7 | | 60 - 140 | |
| | MSD | 1627023-33 | ND | 0.0044929 | 0.0050847 | mg/kg | 4.2 | 88.4 | 30 | 60 - 140 | |
| TCMX (Surrogate) | MS | 1627023-33 | ND | 0.0077073 | 0.0099338 | mg/kg | | 77.6 | | 20 - 130 | |
| | MSD | 1627023-33 | ND | 0.0079092 | 0.010169 | mg/kg | 2.6 | 77.8 | | 20 - 130 | |
| Decachlorobiphenyl (Surrogate) | MS | 1627023-33 | ND | 0.014317 | 0.019868 | mg/kg | | 72.1 | | 40 - 130 | |
| | MSD | 1627023-33 | ND | 0.013932 | 0.020339 | mg/kg | 2.7 | 68.5 | | 40 - 130 | |
| **QC Batch ID: BZK1571** | Used client sample: N | | | | | | | | | | |
| Aldrin | MS | 1625251-85 | ND | 0.0041831 | 0.0050676 | mg/kg | | 82.5 | | 50 - 140 | |
| | MSD | 1625251-85 | ND | 0.0038827 | 0.0049834 | mg/kg | 7.4 | 77.9 | 30 | 50 - 140 | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZK1571** | Used client sample: N | | | | | | | | | | |
| gamma-BHC (Lindane) | MS | 1625251-85 | ND | 0.0045368 | 0.0050676 | mg/kg | | 89.5 | | 50 - 140 | |
| | MSD | 1625251-85 | ND | 0.0041468 | 0.0049834 | mg/kg | 9.0 | 83.2 | 30 | 50 - 140 | |
| 4,4'-DDT | MS | 1625251-85 | ND | 0.0051642 | 0.0050676 | mg/kg | | 102 | | 50 - 140 | |
| | MSD | 1625251-85 | ND | 0.0048661 | 0.0049834 | mg/kg | 5.9 | 97.6 | 30 | 50 - 140 | |
| Dieldrin | MS | 1625251-85 | ND | 0.0042172 | 0.0050676 | mg/kg | | 83.2 | | 40 - 140 | |
| | MSD | 1625251-85 | ND | 0.0039860 | 0.0049834 | mg/kg | 5.6 | 80.0 | 30 | 40 - 140 | |
| Endrin | MS | 1625251-85 | ND | 0.0053392 | 0.0050676 | mg/kg | | 105 | | 50 - 150 | |
| | MSD | 1625251-85 | ND | 0.0047874 | 0.0049834 | mg/kg | 10.9 | 96.1 | 30 | 50 - 150 | |
| Heptachlor | MS | 1625251-85 | ND | 0.0044753 | 0.0050676 | mg/kg | | 88.3 | | 60 - 140 | |
| | MSD | 1625251-85 | ND | 0.0041578 | 0.0049834 | mg/kg | 7.4 | 83.4 | 30 | 60 - 140 | |
| TCMX (Surrogate) | MS | 1625251-85 | ND | 0.0083686 | 0.010135 | mg/kg | | 82.6 | | 20 - 130 | |
| | MSD | 1625251-85 | ND | 0.0075721 | 0.0099668 | mg/kg | 10.0 | 76.0 | | 20 - 130 | |
| Decachlorobiphenyl (Surrogate) | MS | 1625251-85 | ND | 0.016724 | 0.020270 | mg/kg | | 82.5 | | 40 - 130 | |
| | MSD | 1625251-85 | ND | 0.015754 | 0.019934 | mg/kg | 6.0 | 79.0 | | 40 - 130 | |

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Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: B[A0495** | | | | | | |
| Arsenic | B[A0495-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| Lead | B[A0495-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| **QC Batch ID: B[A0800** | | | | | | |
| Lead | B[A0800-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| **QC Batch ID: BZI2684** | | | | | | |
| Arsenic | BZI2684-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| Lead | BZI2684-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| **QC Batch ID: BZI2802** | | | | | | |
| Arsenic | BZI2802-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| **QC Batch ID: BZJ1755** | | | | | | |
| Arsenic | BZJ1755-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| Lead | BZJ1755-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| **QC Batch ID: BZK1606** | | | | | | |
| Arsenic | BZK1606-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| Lead | BZK1606-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| **QC Batch ID: BZL1679** | | | | | | |
| Arsenic | BZL1679-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| Lead | BZL1679-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| **QC Batch ID: BZL2441** | | | | | | |
| Arsenic | BZL2441-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| **Lead** | **BZL2441-BLK1** | **0.43713** | **mg/kg** | **2.5** | **0.28** | **J** |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: B[A0495** | | | | | | | | | | |
| Arsenic | B[A0495-BS1 | LCS | 9.3266 | 10.000 | mg/kg | 93.3 | | 75 - 125 | | |
| Lead | B[A0495-BS1 | LCS | 102.12 | 100.00 | mg/kg | 102 | | 75 - 125 | | |
| **QC Batch ID: B[A0800** | | | | | | | | | | |
| Lead | B[A0800-BS1 | LCS | 99.934 | 100.00 | mg/kg | 99.9 | | 75 - 125 | | |
| **QC Batch ID: BZI2684** | | | | | | | | | | |
| Arsenic | BZI2684-BS1 | LCS | 9.1689 | 10.000 | mg/kg | 91.7 | | 75 - 125 | | |
| Lead | BZI2684-BS1 | LCS | 93.298 | 100.00 | mg/kg | 93.3 | | 75 - 125 | | |
| **QC Batch ID: BZI2802** | | | | | | | | | | |
| Arsenic | BZI2802-BS1 | LCS | 8.8915 | 10.000 | mg/kg | 88.9 | | 75 - 125 | | |
| **QC Batch ID: BZJ1755** | | | | | | | | | | |
| Arsenic | BZJ1755-BS1 | LCS | 9.0817 | 10.000 | mg/kg | 90.8 | | 75 - 125 | | |
| Lead | BZJ1755-BS1 | LCS | 98.383 | 100.00 | mg/kg | 98.4 | | 75 - 125 | | |
| **QC Batch ID: BZK1606** | | | | | | | | | | |
| Arsenic | BZK1606-BS1 | LCS | 9.0426 | 10.000 | mg/kg | 90.4 | | 75 - 125 | | |
| Lead | BZK1606-BS1 | LCS | 94.434 | 100.00 | mg/kg | 94.4 | | 75 - 125 | | |
| **QC Batch ID: BZL1679** | | | | | | | | | | |
| Arsenic | BZL1679-BS1 | LCS | 10.615 | 10.000 | mg/kg | 106 | | 75 - 125 | | |
| Lead | BZL1679-BS1 | LCS | 99.594 | 100.00 | mg/kg | 99.6 | | 75 - 125 | | |
| **QC Batch ID: BZL2441** | | | | | | | | | | |
| Arsenic | BZL2441-BS1 | LCS | 10.300 | 10.000 | mg/kg | 103 | | 75 - 125 | | |
| Lead | BZL2441-BS1 | LCS | 110.12 | 100.00 | mg/kg | 110 | | 75 - 125 | | |

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**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: B[A0495** | Used client sample: Y - Description: SB7-5S-24, 10/01/2016 10:24 | | | | | | | | | | |
| **Arsenic** | DUP | **1627778-60** | **24.958** | **26.455** | | **mg/kg** | **5.8** | | **20** | | |
| | MS | **1627778-60** | **24.958** | **28.469** | **10.000** | **mg/kg** | | **35.1** | | **75 - 125** | **Q03** |
| | MSD | **1627778-60** | **24.958** | **33.306** | **10.000** | **mg/kg** | **15.7** | **83.5** | **20** | **75 - 125** | |
| **Lead** | DUP | **1627778-60** | **12.708** | **7.8993** | | **mg/kg** | **46.7** | | **20** | | **Q01** |
| | MS | **1627778-60** | **12.708** | **97.448** | **100.00** | **mg/kg** | | **84.7** | | **75 - 125** | |
| | MSD | **1627778-60** | **12.708** | **102.30** | **100.00** | **mg/kg** | **4.9** | **89.6** | **20** | **75 - 125** | |
| **QC Batch ID: B[A0800** | Used client sample: N | | | | | | | | | | |
| Lead | DUP | 634073-10RE3 | ND | ND | | mg/kg | | | 20 | | |
| | MS | 634073-10RE3 | ND | 92.303 | 100.00 | mg/kg | | 92.3 | | 75 - 125 | |
| | MSD | 634073-10RE3 | ND | 95.579 | 100.00 | mg/kg | 3.5 | 95.6 | 20 | 75 - 125 | |
| **QC Batch ID: BZI2684** | Used client sample: Y - Description: SB26-5N-00, 09/24/2016 09:10 | | | | | | | | | | |
| Arsenic | DUP | 1627023-21 | 15.563 | 14.613 | | mg/kg | 6.3 | | 20 | | |
| | MS | 1627023-21 | 15.563 | 24.539 | 10.000 | mg/kg | | 89.8 | | 75 - 125 | |
| | MSD | 1627023-21 | 15.563 | 25.193 | 10.000 | mg/kg | 2.6 | 96.3 | 20 | 75 - 125 | |
| **Lead** | DUP | **1627023-21** | **101.68** | **98.237** | | **mg/kg** | **3.4** | | **20** | | |
| | MS | **1627023-21** | **101.68** | **189.70** | **100.00** | **mg/kg** | | **88.0** | | **75 - 125** | |
| | MSD | **1627023-21** | **101.68** | **176.44** | **100.00** | **mg/kg** | **7.2** | **74.8** | **20** | **75 - 125** | **Q03** |
| **QC Batch ID: BZI2802** | Used client sample: N | | | | | | | | | | |
| **Arsenic** | DUP | **1627192-01** | **5.2372** | **5.5660** | | **mg/kg** | **6.1** | | **20** | | |
| | MS | **1627192-01** | **5.2372** | **12.274** | **10.000** | **mg/kg** | | **70.4** | | **75 - 125** | **Q03** |
| | MSD | **1627192-01** | **5.2372** | **11.670** | **10.000** | **mg/kg** | **5.1** | **64.3** | **20** | **75 - 125** | **Q03** |
| **QC Batch ID: BZJ1755** | Used client sample: N | | | | | | | | | | |
| **Arsenic** | DUP | **1628797-01** | **6.0764** | **7.2152** | | **mg/kg** | **17.1** | | **20** | | |
| | MS | **1628797-01** | **6.0764** | **15.500** | **10.000** | **mg/kg** | | **94.2** | | **75 - 125** | |
| | MSD | **1628797-01** | **6.0764** | **13.164** | **10.000** | **mg/kg** | **16.3** | **70.9** | **20** | **75 - 125** | **Q03** |
| **Lead** | DUP | **1628797-01** | **7.5091** | **9.2500** | | **mg/kg** | **20.8** | | **20** | | **A02** |
| | MS | **1628797-01** | **7.5091** | **87.258** | **100.00** | **mg/kg** | | **79.7** | | **75 - 125** | |
| | MSD | **1628797-01** | **7.5091** | **77.731** | **100.00** | **mg/kg** | **11.5** | **70.2** | **20** | **75 - 125** | **Q03** |
| **QC Batch ID: BZK1606** | Used client sample: Y - Description: SB36-5S-00, 09/24/2016 08:19 | | | | | | | | | | |
| Arsenic | DUP | 1627023-07 | 0.91681 | 1.1206 | | mg/kg | 20.0 | | 20 | | |
| | MS | 1627023-07 | 0.91681 | 10.206 | 10.000 | mg/kg | | 92.9 | | 75 - 125 | |
| | MSD | 1627023-07 | 0.91681 | 10.633 | 10.000 | mg/kg | 4.1 | 97.2 | 20 | 75 - 125 | |
| **Lead** | DUP | **1627023-07** | **28.887** | **38.466** | | **mg/kg** | **28.4** | | **20** | | **Q01** |
| | MS | **1627023-07** | **28.887** | **118.15** | **100.00** | **mg/kg** | | **89.3** | | **75 - 125** | |
| | MSD | **1627023-07** | **28.887** | **116.86** | **100.00** | **mg/kg** | **1.1** | **88.0** | **20** | **75 - 125** | |
| **QC Batch ID: BZL1679** | Used client sample: N | | | | | | | | | | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZL1679** | Used client sample: N | | | | | | | | | | |
| Arsenic | DUP | 1634960-23 | 4.8501 | 5.3933 | | mg/kg | 10.6 | | 20 | | |
| | MS | 1634960-23 | 4.8501 | 14.098 | 10.000 | mg/kg | | 92.5 | | 75 - 125 | |
| | MSD | 1634960-23 | 4.8501 | 15.342 | 10.000 | mg/kg | 8.5 | 105 | 20 | 75 - 125 | |
| Lead | DUP | 1634960-23 | 12.626 | 13.210 | | mg/kg | 4.5 | | 20 | | |
| | MS | 1634960-23 | 12.626 | 90.594 | 100.00 | mg/kg | | 78.0 | | 75 - 125 | |
| | MSD | 1634960-23 | 12.626 | 93.596 | 100.00 | mg/kg | 3.3 | 81.0 | 20 | 75 - 125 | |
| **QC Batch ID: BZL2441** | Used client sample: N | | | | | | | | | | |
| Arsenic | DUP | 1634958-17 | 7.5757 | 8.0043 | | mg/kg | 5.5 | | 20 | | |
| | MS | 1634958-17 | 7.5757 | 16.623 | 10.000 | mg/kg | | 90.5 | | 75 - 125 | |
| | MSD | 1634958-17 | 7.5757 | 17.485 | 10.000 | mg/kg | 5.1 | 99.1 | 20 | 75 - 125 | |
| Lead | DUP | 1634958-17 | 50.586 | 57.202 | | mg/kg | 12.3 | | 20 | | |
| | MS | 1634958-17 | 50.586 | 132.86 | 100.00 | mg/kg | | 82.3 | | 75 - 125 | |
| | MSD | 1634958-17 | 50.586 | 130.31 | 100.00 | mg/kg | 1.9 | 79.7 | 20 | 75 - 125 | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/12/2017 15:13
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

## Notes And Definitions

| | |
|---|---|
| J | Estimated Value (CLP Flag) |
| MDL | Method Detection Limit |
| ND | Analyte Not Detected |
| PQL | Practical Quantitation Limit |
| A01 | Detection and quantitation limits are raised due to sample dilution. |
| A02 | The difference between duplicate readings is less than the quantitation limit. |
| A07 | Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference. |
| A10 | Detection and quantitation limits were raised due to matrix interference. |
| Q01 | Sample precision is not within the control limits. |
| Q03 | Matrix spike recovery(s) is(are) not within the control limits. |
| S05 | The sample holding time was exceeded. |
| S09 | The surrogate recovery on the sample for this compound was not within the control limits. |

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Date of Report: 01/04/2017

Travis Stravasnik

E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

| | |
|---|---|
| Client Project: | [none] |
| BCL Project: | LAUSD-San Pedro High School |
| BCL Work Order: | 1627024 |
| Invoice ID: | B248767, B250539, B252906, B255128, B255947 |

Enclosed are the results of analyses for samples received by the laboratory on 9/27/2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature



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# BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

10/19

16-27024

## Chain of Custody

* Required Fields

TEMP: _____

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

**Carbon Copies:** CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

| Project Information: | PO # |
|---|---|
| LAUSD-San Pedro High School | BCL Quote # |

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

**Regulatory Compliance** Electronic Data Transfer: Y☐ N☐ System No. *

| Sampler Name Printed / Signature | QC Request | Result Request ** Surcharge |
|---|---|---|
| G. Valenzuela/K. Lin/A.Mitoma | ☑STD ☐ Level II | ☑STD ☐5 Day** ☐2 Day** ☐1 Day** |

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -1 | | 9/25/16 | 0804 | SB 41-10W-00 | soil | HOLD | | | |
| -2 | | | 0807 | SB 41-10W-12 | soil | | | | |
| -3 | | | 0809 | SB 41-10W-24 | soil | | | | |
| -4 | | | 0810 | SB 41-10E-00 | soil | | | | |
| -5 | | | 0813 | SB 41-10E-12 | soil | | | | |
| -6 | | | 0817 | SB 41-10E-24 | soil | | | | |
| -7 | | | 0810 | SB 41-5W-00 | soil | | | X | |
| -8 | | | 0813 | SB 41-5W-12 | soil | HOLD | | | |
| -9 | | | 0814 | SB 41-5W-24 | soil | | | | |
| -10 | | | 0819 | SB 41-5E-00 | soil | | | X | |
| -11 | | | 0820 | SB 41-5E-12 | soil | HOLD | | | |

CHK BY DISTRIBUTION WHITE GP YELLOW SUB-OUT

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 9/26/16 | 1120 | | BC Labs |
| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
| | BC Labs | 9/27/16 | 520 | | BCL |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: | |
| | | 9/27/16 | 1900 | Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

9.27 1900

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

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# BC LABORATORIES

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11/19

16-27024

## Chain of Custody

* Required Fields

TEMP: _____

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y☐ N☐ System No. *

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -12 | | 9/25/16 | 0823 | SB 41 - SE - 24 | soil | HOLD | | | |
| -13 | | | 0837 | SB 47 - 10W - 00 | soil | HOLD | | | |
| -14 | | | 0854 | SB 47 - 10W - 12 | soil | | | | |
| -15 | | | 0832 | SB 47 - 10E - 00 | soil | | | | |
| -16 | | | 0834 | SB 47 - 10E - 12 | soil | | | | |
| -17 | | | 0900 | SB 44 - 10N - 00 | soil | HOLD | | | |
| -18 | | | 0903 | SB 44 - 10N - 12 | soil | | | | |
| -19 | | | 0906 | SB 44 - 10N - 24 | soil | | | | |
| -20 | | | 0907 | SB 44 - 10S - 00 | soil | | | NO | |
| -21 | | | 0914 | SB 44 - 10S - 12 | soil | | | | |
| -22 | | ↓ | 0917 | SB 44 - 10S - 24 | soil | | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 9/26/16 | 1120 | John Ward | BC Labs |
| John Ward | BC Labs | 9/27/16 | 520 | | BCL |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init. | |
| | | 9/27/16 | 1900 | | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER 9.27 1900

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

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12/19

16-27024

TEMP: _____

# Chain of Custody

* Required Fields

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Carbon Copies:** CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

**Regulatory Compliance** Electronic Data Transfer: Y ☐ N ☐ System No. *

ANALYSIS REQUESTED

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -23 | | 9/25/16 | 0907 | SB 44 - 5N - 00 | soil | | | X | |
| -24 | | | 0909 | SB 44 - 5N - 12 | soil | HOLD | | | |
| -25 | | | 0912 | SB 44 - 5N - 24 | soil | ↓ | | | |
| -26 | | | 0918 | SB 44 - 5S - 00 | soil | | | X | |
| -27 | | | 0920 | SB 44 - 5S - 12 | soil | HOLD | | | |
| -28 | | | 0922 | SB 44 - 5S - 24 | soil | ↓ | | | |
| -29 | | | 1500 | SB DUP3A - 092516 | soil | | | | |
| -30 | | | 1503 | SB DUP3B - 092516 | soil | | | | |
| -31 | | | 1505 | SB DUP3C - 092516 | soil | | | | |
| -32 | | | 0942 | SB 46 - 10N - 00 | soil | | | | |
| -33 | | ↓ | 0952 | SB 46 - 10N - 12 | soil | ↓ | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by: (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 9/26/16 | 1120 | John Ward | BC Labs |
| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by: (Signature and Print Name) | Company |
| John Ward | BC Labs | 9/27/16 | 520 | | BCL |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: | |
| | | 9/27/16 | 1900 | Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

9.27 0900

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

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13/19

## Chain of Custody

16-27024

* Required Fields TEMP: _____

| Client/Company Name *: | Report Attention *: | Phone * #: / FAX * #: |
|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 / E-mail: gabriela.valenzuela@e2mt.com |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Project Information: LAUSD-San Pedro High School
PO #
BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Regulatory Compliance: Electronic Data Transfer: Y ☐ N ☐ System No. *

**Matrix Types:** RSW = Raw Surface Water; RGW = Raw Ground Water; CFW = Clorinated Finished Water; FW = Finished Water; CWW = Chorinated Waste Water; WW = Waste Water; BW = Bottled Water; SW = Storm Water; DW = Drinking Water; SO = Solid

ANALYSIS REQUESTED

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -34 | | 9/25/16 | 0953 | SB 46 - 10N - 24 | soil | HOLD | | | |
| -35 | | | 0941 | SB 46 - 10S - 00 | soil | | | | |
| -36 | | | 0943 | SB 46 - 10S - 12 | soil | | | | |
| -37 | | | 0945 | SB 46 - 10S - 24 | soil | | | | |
| -38 | | | 0947 | SB 46 - 5S - 00 | soil | | [redacted] | X | X |
| -39 | | | 0949 | SB 46 - 5S - 12 | soil | HOLD | | | |
| -40 | | | 0951 | SB 46 - 5S - 24 | soil | | | | |
| -41 | | | 0956 | SB 46 - 9N - 00 | soil | | [redacted] | X | X |
| -42 | | | 0958 | SB 46 - 5N - 12 | soil | HOLD | | | |
| -43 | | | 1000 | SB 46 - 5N - 24 | soil | | | | |
| -44 | | | 0952 | SB 46 - 5E - 00 | soil | | [redacted] | X | X |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by: (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 9/26/16 | 1120 | John Wood | BC Labs |
| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by: (Signature and Print Name) | Company |
| | BC Labs | 9/27/16 | 520 | | BCL |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init. | |
| | | 9/27/16 | 1900 | | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER 9.27 1900/16

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

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# BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

14/19

16-27024

TEMP: _____

## Chain of Custody

* Required Fields

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y ☐ N ☐ System No. *

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -45 | | 9/25/16 | 0954 | SB 46 - 5E - 12 | soil | HOLD | | | |
| -46 | | | 0955 | SB 46 - 5E - 24 | soil | ↓ | | | |
| -47 | | | 1520 | DUP 4A - 092516 | soil | | ~~X~~ | X | X |
| -48 | | | 1523 | DUP 4B - 092516 | soil | HOLD | | | |
| -49 | | | 1525 | DUP 4C - 092516 | soil | ↓ | | | |
| -50 | | | 1014 | SB 23 - 5E - 00 | soil | | ~~X~~ | | |
| -51 | | | 1016 | SB 23 - 5E - 12 | soil | HOLD | | | |
| -52 | | | 1018 | SB 23 - 5E - 24 | soil | ↓ | | | |
| -53 | | | 1023 | SB 23 - 5S - 00 | soil | ↓ | ~~X~~ | | |
| -54 | | | 1025 | SB 23 - 5S - 12 | soil | HOLD | | | |
| -55 | | ↓ | 1027 | SB 23 - 5S - 24 | soil | ↓ | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 9/26/16 | 1120 | Jack Wood | BC Labs |
| | BC Labs | 9/27/16 | 520 | | BCL |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: | |
| | | 9/27/16 | 1900 | Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER — 4:27 0900

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

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# BC LABORATORIES

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15/19

16-27024

## Chain of Custody

* Required Fields

TEMP: _____

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y ☐ N ☐ System No. *

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -56 | | 9/25/16 | 1031 | SB 23 - 5W - 00 | soil | ↑ | X | | |
| -57 | | | 1035 | SB 23 - 5W - 12 | soil | HOLD | | | |
| -58 | | | 1037 | SB 23 - 5W - 24 | soil | | | | |
| -59 | | | 1530 | SB UPSA - 092516 | soil | | | | |
| -60 | | | 1533 | SB UPSB - 092516 | soil | | | | |
| -61 | | | 1535 | SB UPSC - 092516 | soil | | | | |
| -62 | | | 1023 | SB 23 - 10W - 00 | soil | | | | |
| -63 | | | 1027 | SB 23 - 10W - 12 | soil | | | | |
| -64 | | | 1041 | SB 23 - 10W - 24 | soil | | | | |
| -65 | | | 1120 | SB 1 - 10S - 00 | soil | | | | |
| -66 | | ↓ | 1122 | SB 1 - 10S - 12 | soil | ↓ | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 9/26/16 | 1120 | | BC Labs |
| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
| | BC Labs | 9/27/16 | 520 | | BCL |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init. | |
| | | 9/27/16 | 1900 | | |

Shipping Method: 9.27 1900 CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

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# BC LABORATORIES

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16/19

16-27024

## Chain of Custody

* Required Fields

TEMP: _____

| Client/Company Name *: | Report Attention *: | Phone * #: / FAX * #: |
|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 |
| | | E-mail: gabriela.valenzuela@e2mt.com |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Carbon Copies:** CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

**Regulatory Compliance** Electronic Data Transfer: Y ☐ N ☐ System No. *

ANALYSIS REQUESTED

**Matrix Types:** RSW = Raw Surface Water; CFW = Clorinated Finished Water; CWW = Chorinated Waste Water; BW = Bottled Water; RGW = Raw Ground Water; FW = Finished Water; WW = Waste Water; SW = Storm Water; DW = Drinking Water; SO = Solid

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -67 | | 9/25/16 | 1124 | SB 1 -10S -24 | soil | HOLD | | | |
| -68 | | | 1125 | SB 1 -10W -00 | soil | | | | |
| -69 | | | 1130 | SB 1 -10N -12 | soil | | | | |
| -70 | | | 1137 | SB 1 -10N -24 | soil | | | | |
| -71 | | | 1127 | SB 1 -5S -00 | soil | | | X | |
| -72 | | | 1129 | SB 1 -5S -12 | soil | HOLD | | | |
| -73 | | | 1130 | SB 1 -5S -24 | soil | | | | |
| -74 | | | 1137 | SB 1 10W -00 | soil | | | | |
| -75 | | | 1139 | SB 1 -10W -12 | soil | | | | |
| -76 | | | 1141 | SB 1 -10W -24 | soil | | | | |
| -77 | | | 1140 | SB 1 -5N -00 | soil | | | X | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 9/26/16 | 1120 | John Wood | BC Labs |
| | BC Labs | 9/27/16 | 520 | | BCL |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: | |
| | | 9/27/16 | 1900 | Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: 9.27.1900 CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

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# BC LABORATORIES

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16-27024

17/19

## Chain of Custody

* Required Fields

TEMP: _____

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Carbon Copies:**
CDHS ☐ Fresno Co ☐ EPA ☐
Merced Co ☐ Tulare Co ☐
Other:

**Regulatory Compliance**
Electronic Data Transfer: Y ☐ N ☐
System No. *

ANALYSIS REQUESTED

**Matrix Types:** RSW = Raw Surface Water; RGW = Raw Ground Water; CFW = Clorinated Finished Water; FW = Finished Water; CWW = Chorinated Waste Water; WW = Waste Water; BW = Bottled Water; SW = Storm Water; DW = Drinking Water; SO = Solid

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -78 | | 9/25/16 | 1149 | SB 1 - 5W - 12 | soil | HOLD | | | |
| -79 | | | 1150 | SB 1 - 5W - 00 | soil | | | X | |
| -80 | | | 1152 | SB 1 - 5W - 12 | soil | HOLD | | | |
| -81 | | | 1154 | SB 1 - 5W - 24 | soil | ↓ | | | |
| -82 | | | 1218 | SB 4 - 5W - 00 | soil | | | X | |
| -83 | | | 1219 | SB 4 - 5E - 00 | soil | | | X | |
| -84 | | | 1221 | SB 4 - 5E - 12 | soil | HOLD | | | |
| -85 | | | 1223 | SB 4 - 5E - 24 | soil | | | | |
| -86 | | | 1224 | SB 4 - 10E - 00 | soil | | | | |
| -87 | | | 1226 | SB 4 - 10E - 12 | soil | | | | |
| -88 | | ↓ | 1228 | SB 4 - 10E - 24 | soil | ↓ | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by: (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 9/26/16 | 1120 | John Wood | BC Labs |
| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by: (Signature and Print Name) | Company |
| John Wood | BC Labs | 9/27/16 | 820 | | BCL |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: | |
| | | 9/27/16 | 1900 | Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER — 9.27 1900

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

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# BC LABORATORIES

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18/19

16-27024

## Chain of Custody

* Required Fields

TEMP: _____

| Client/Company Name *: | Report Attention *: | Phone * #: 562-353-4855 FAX * #: |
|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | E-mail: gabriela.valenzuela@e2mt.com |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Carbon Copies:** CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

**Regulatory Compliance** Electronic Data Transfer: Y ☐ N ☐ System No. *

ANALYSIS REQUESTED

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -89 | | 9/25/16 | 1228 | SB 4 -5S -00 | soil | | | X | |
| -90 | | | 1245 | SB 4 -9S -12 | soil | HOLD | | | |
| -91 | | | 1247 | SB 4 -5S -24 | soil | | | | |
| -92 | | | 1235 | SB 6 -7W -00 | soil | | | | |
| -93 | | | 1237 | SB 6 -7W -12 | soil | | | | |
| -94 | | | 1239 | SB 6 -7W -24 | soil | | | | |
| -95 | | | 1323 | SB 6 -5W -00 | soil | | | X | |
| -96 | | | 1335 | SB 6 -5W -12 | soil | HOLD | | | |
| -97 | | | 1337 | SB 6 -5W -24 | soil | | | | |
| -98 | | | 1332 | SB 6 -10N -00 | soil | | | | |
| -99 | | | 1545 | SB DUP 6A-092516 | soil | | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 9/26/16 | 11[20] | | BC Labs |
| | BC Labs | 9/27/16 | 9:20 | | BCL |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: | |
| | | 9/27/16 | 1900 | Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER 9:27 1900

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

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**Chain of Custody and Cooler Receipt Form for 1627024 Page 10 of 21**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 of 2

Submission #: 16-27024

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact: Yes ☐ No ☐ Containers ☐ Intact: Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: RC/CC Thermometer ID: 208 Date/Time: 9-27-16 1902

Temperature: (A) 0.2 °C / (C) 0.4 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: _____ Date/Time: 9/28/16 1225

Rev 21 05/23/2016

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**Chain of Custody and Cooler Receipt Form for 1627024 Page 11 of 21**

BC LABORATORIES INC. — COOLER RECEIPT FORM — Page 2 Of 12

Submission #: 16-27024

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / (S) |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact: Yes ☐ No ☐ Containers ☐ Intact: Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: IR Glass Thermometer ID: 208 Date/Time: 9-27-16 1902

Temperature: (A) 0.2 °C / (C) 0.4 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: COA Date/Time: 9/28/16 1225

Rev 21 05/23/2016

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**Chain of Custody and Cooler Receipt Form for 1627024 Page 12 of 21**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 Of 12

Submission #: 16-27024

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☐ No ☐ Description(s) match COC? Yes ☐ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: IR Glass Thermometer ID: 208 Date/Time: 9.27.16 1902

Temperature: (A) 0.2 °C / (C) 0.4 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: CAA Date/Time: 9/28/16 1225

Rev 21 05/23/2016

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**Chain of Custody and Cooler Receipt Form for 1627024 Page 13 of 21**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 4 Of 12

Submission #: 16-27024

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: 1P Glass Thermometer ID: 208 Date/Time: 9.27.16 1900

Temperature: (A) 0.7 °C / (C) 0.80.9 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments: DPA 9/28/16 1225

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**Chain of Custody and Cooler Receipt Form for 1627024 Page 14 of 21**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 5 Of 12

Submission #: 16-27024

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: IR Gun Thermometer ID: 208 Date/Time: 9.27.16 1902

Temperature: (A) 0.2 °C / (C) 0.4 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: ADA Date/Time: 9/28/16 1225

Rev 21 05/23/2016

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**Chain of Custody and Cooler Receipt Form for 1627024 Page 15 of 21**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 6 Of 12

Submission #: 16-27024

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact: Yes ☐ No ☐ Containers ☐ Intact: Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: 1P Glass Thermometer ID: 208 Date/Time: 9.27.16 1900

Temperature: (A) 0.7 °C / (C) 0.8 0.9 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Y2 | Y3 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments: AAA 9/28/16 1125

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**Chain of Custody and Cooler Receipt Form for 1627024 Page 16 of 21**

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COOLER RECEIPT FORM

BC LABORATORIES INC.

Submission #: 16-27024

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: 1L Glass Thermometer ID: 208 Date/Time: 9.27.16 1902

Temperature: (A) 0.3 °C / (C) 0.5 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | A | A | A | A | A | A | A | A | A | A |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:
Sample Numbering Completed By: CDA Date/Time: 9/28/16 1225

Rev 21 05/23/20

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 8 Of 12

Submission #: 16-27024

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐<br>BC Lab Field Service ☒ Other ☐ (Specify)_____ | Ice Chest ☒ None ☐ Box ☐<br>Other ☐ (Specify)_____ | YES ☐ NO ☐<br>W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact: Yes ☐ No ☐ Containers ☐ Intact: Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: 1P G/C-D Thermometer ID: 208 Date/Time: 9-27-16 1902

Temperature: (A) 0.7 °C / (C) 0.80.9 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS 64 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments: COA 9/28/16 1225

Sample Numbering Completed By:

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**Chain of Custody and Cooler Receipt Form for 1627024 Page 18 of 21**

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COOLER RECEIPT FORM

BC LABORATORIES INC.

Submission #: 16-27024

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☐ NO ☐
W / (S)

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact: Yes ☐ No ☐ Containers ☐ Intact: Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☐ No ☐ All samples containers intact? Yes ☐ No ☐ Description(s) match COC? Yes ☐ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: 125 Glass Thermometer ID: 208 Date/Time: 9-27-16 1902

Temperature: (A) 0.3 °C / (C) 0.5 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 83 | 84 | 85 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | A | A | A | A | A | A | A | A | A | A |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:
Sample Numbering Completed By: ORA Date/Time: 9/28/16 1225

Rev 21 05/23/20

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**Chain of Custody and Cooler Receipt Form for 1627024 Page 19 of 21**

COOLER RECEIPT FORM — Page 1 Of 2

BC LABORATORIES INC.

Submission #: 16-27024

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☐ NO ☐
W / (S)

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact: Yes ☐ No ☐ Containers ☐ Intact: Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: 1L Glass Thermometer ID: 208 Date/Time: 9.27.16 1902

Temperature: (A) 0.3 °C / (C) 0.5 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 86 | 87 | 88 | 89 | 90 | 96 | 92 | 93 | 94 | 95 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| P1A PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | A | A | A | A | A | A | A | A | A | A |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:
Sample Numbering Completed By: Date/Time: 9/28/16 1125

Rev 21 05/23/20

**Chain of Custody and Cooler Receipt Form for 1627024 Page 20 of 21**

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COOLER RECEIPT FORM

BC LABORATORIES INC.

Submission #: 16-27024

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact: Yes ☐ No ☐ | Containers ☐ Intact: Yes ☐ No ☐ | None ☒ Comments:

All samples received? Yes ☐ No ☐ All samples containers intact? Yes ☐ No ☐ Description(s) match COC? Yes ☐ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: 1 Glass Thermometer ID: 208 Date/Time: 9-27-16 1902

Temperature: (A) 0.3 °C / (C) 0.5 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS 96 | 97 | 99 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | A | A | A | | | | | | | |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:
Sample Numbering Completed By: CBA Date/Time: 9/28/16 1225

Rev 21 05/23/20

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**Chain of Custody and Cooler Receipt Form for 1627024 Page 21 of 21**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 12 Of 12

Submission #: 16-27024

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: IR Gun Thermometer ID: 208 Date/Time: 9.27.16 1902

Temperature: (A) 0.2 °C / (C) 0.4 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 53 | 54 | 55 | 82 | 98 | 6 | 7 | 8 | 9 | 10 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: ODA Date/Time: 9/28/16 1225 Rev 21 05/23/2016

E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627024-01** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 08:04 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB41-10W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-02** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 08:07 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB41-10W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-03** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 08:09 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB41-10W-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-04** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 08:10 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB41-10E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-05** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 08:13 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB41-10E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-06** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 08:17 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB41-10E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-07** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 08:10 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB41-5W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627024-08** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 08:13 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB41-5W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-09** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 08:14 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB41-5W-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-10** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 08:19 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB41-5E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-11** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 08:20 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB41-5E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-12** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 08:23 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB41-5E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-13** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 08:37 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB47-10W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-14** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 08:54 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB47-10W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627024-15** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 08:32 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB47-10E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-16** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 08:34 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB47-10E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-17** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB44-10N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-18** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:03 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB44-10N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-19** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:06 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB44-10N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-20** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:07 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB44-10S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-21** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:14 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB44-10S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627024-22** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:17 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB44-10S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-23** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:07 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB44-5N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-24** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:09 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB44-5N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-25** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:12 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB44-5N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-26** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:18 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB44-5S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-27** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:20 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB44-5S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-28** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:22 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB44-5S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627024-29** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 15:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP3A-092516 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-30** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 15:03 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP3B-092516 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-31** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 15:05 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP3C-092516 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-32** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:42 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB46-10N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-33** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:52 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB46-10N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-34** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:53 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB46-10N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-35** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:41 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB46-10S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627024-36** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:43 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB46-10S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-37** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:45 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB46-10S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-38** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:47 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB46-5S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-39** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:49 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB46-5S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-40** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:51 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB46-5S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-41** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:56 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB46-5N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-42** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:58 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB46-5N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627024-43** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 10:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB46-5N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-44** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:52 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB46-5E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-45** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:54 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB46-5E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-46** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 09:55 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB46-5E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-47** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 15:20 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP4A-092516 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-48** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 15:23 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP4B-092516 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-49** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 15:25 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP4C-092516 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627024-50** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 10:14 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB23-5E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-51** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 10:16 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB23-5E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-52** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 10:18 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB23-5E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-53** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 10:23 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB23-5S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-54** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 10:25 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB23-5S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-55** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 10:27 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB23-5S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-56** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 10:31 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB23-5W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627024-57** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 10:35 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB23-5W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-58** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 10:37 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB23-5W-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-59** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 15:30 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP5A-092516 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-60** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 15:33 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP5B-092516 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-61** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 15:35 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP5C-092516 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-62** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 10:23 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB23-10W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-63** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 10:27 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB23-10W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627024-64** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 10:41 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB23-10W-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-65** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 11:20 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB1-10S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-66** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 11:22 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB1-10S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-67** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 11:24 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB1-10S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-68** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 11:25 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB1-10N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-69** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 11:30 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB1-10N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-70** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 11:37 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB1-10N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627024-71** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 11:27 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB1-5S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-72** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 11:29 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB1-5S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-73** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 11:30 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB1-5S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-74** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 11:37 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB1-10W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-75** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 11:39 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB1-10W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-76** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 11:41 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB1-10W-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-77** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 11:40 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB1-5N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627024-78** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 11:49 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB1-5N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-79** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 11:50 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB1-5W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-80** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 11:52 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB1-5W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-81** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 11:54 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB1-5W-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-82** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 12:18 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB4-5W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-83** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 12:19 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB4-5E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-84** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 12:21 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB4-5E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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5001 Airport Plaza Drive, Suite 260
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**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627024-85** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 12:23 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB4-5E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-86** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 12:24 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB4-10E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-87** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 12:26 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB4-10E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-88** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 12:28 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB4-10E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-89** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 12:28 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB4-5S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-90** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 12:45 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB4-5S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-91** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 12:47 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB4-5S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627024-92** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 12:35 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB6-7W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-93** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 12:37 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB6-7W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-94** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 12:39 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB6-7W-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-95** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 13:23 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB6-5W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-96** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 13:35 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB6-5W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-97** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 13:37 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB6-5W-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627024-98** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 13:32 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB6-10N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627024-99** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 15:45 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP6A-092516 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-04 | **Client Sample Name:** SB41-10E-00, 9/25/2016 8:10:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **15** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/19/16 | 10/19/16 19:24 | JCC | PE-OP3 | 0.971 | BZJ1755 |

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**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-05 | **Client Sample Name:** SB41-10E-12, 9/25/2016 8:13:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **9.9** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/16/16 | 11/17/16 13:29 | JCC | PE-OP3 | 0.971 | BZK1606 |

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**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-07 | **Client Sample Name:** SB41-5W-00, 9/25/2016 8:10:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **9.9** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 16:30 | JCC | PE-OP3 | 5 | BZI2687 |

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**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-10 | **Client Sample Name:** SB41-5E-00, 9/25/2016 8:19:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **14** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 16:46 | JCC | PE-OP3 | 4.902 | BZI2687 |

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**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-11 | **Client Sample Name:** SB41-5E-12, 9/25/2016 8:20:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **11** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/19/16 | 10/20/16 11:41 | JCC | PE-OP3 | 1.818 | BZJ1818 |

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**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-15 | **Client Sample Name:** SB47-10E-00, 9/25/2016 8:32:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **12** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/16/16 | 11/17/16 13:41 | JCC | PE-OP3 | 1.961 | BZK1606 |

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**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-17 | **Client Sample Name:** SB44-10N-00, 9/25/2016 9:00:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **11** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/17/16 | 11/18/16 14:09 | JCC | PE-OP3 | 2 | BZK1687 |

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Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-23 | **Client Sample Name:** SB44-5N-00, 9/25/2016 9:07:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **14** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 16:47 | JCC | PE-OP3 | 4.854 | BZI2687 |

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**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-24 | **Client Sample Name:** SB44-5N-12, 9/25/2016 9:09:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **8.5** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/19/16 | 10/20/16 11:42 | JCC | PE-OP3 | 4.854 | BZJ1818 |

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**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-26 | **Client Sample Name:** SB44-5S-00, 9/25/2016 9:18:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **12** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 16:49 | JCC | PE-OP3 | 4.808 | BZI2687 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-35 | **Client Sample Name:** SB46-10S-00, 9/25/2016 9:41:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **79** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/20/16 | 12/20/16 19:18 | JCC | PE-OP3 | 0.980 | BZL1679 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1627024-38 | **Client Sample Name:** SB46-5S-00, 9/25/2016 9:47:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0025 | 0.00032 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0025 | 0.00036 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0025 | 0.00030 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0025 | 0.00017 | EPA-8081A | 4.0 | A10 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.25 | 0.0075 | EPA-8081A | 2.5 | A10 | 1 |
| **4,4'-DDD** | **0.0017** | **mg/kg** | **0.0025** | **0.00042** | **EPA-8081A** | 1.0 | **J,A10** | 1 |
| **4,4'-DDE** | **0.00052** | **mg/kg** | **0.0025** | **0.00042** | **EPA-8081A** | 1.0 | **J,A10** | 1 |
| **4,4'-DDT** | **0.0019** | **mg/kg** | **0.0025** | **0.00039** | **EPA-8081A** | 1.0 | **J,A10** | 1 |
| **Dieldrin** | **0.0085** | **mg/kg** | **0.0025** | **0.00035** | **EPA-8081A** | 8.0 | **A10** | 1 |
| Endosulfan I | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0025 | 0.00050 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0025 | 0.00044 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0025 | 0.00048 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0025 | 0.00028 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0025 | 0.00039 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0025 | 0.00055 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.25 | 0.0065 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 70.6 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 77.2 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/29/16 | 09/30/16 16:46 | HKS | GC-17 | 5.068 | BZJ0116 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-38 | **Client Sample Name:** SB46-5S-00, 9/25/2016 9:47:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **9.9** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **19** | **mg/kg** | **12** | **1.4** | **EPA-6010B** | 1000 | **A07** | 2 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 16:51 | JCC | PE-OP3 | 4.762 | BZI2687 |
| 2 | EPA-6010B | 11/19/16 | 11/21/16 19:59 | ARD | PE-OP3 | 5 | BZK1862 |

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5001 Airport Plaza Drive, Suite 260
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**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-39 | **Client Sample Name:** SB46-5S-12, 9/25/2016 9:49:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **110** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/17/16 | 11/18/16 12:32 | JCC | PE-OP3 | 0.980 | BZK1737 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-40 | **Client Sample Name:** SB46-5S-24, 9/25/2016 9:51:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **6.2** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/20/16 | 12/20/16 19:19 | JCC | PE-OP3 | 0.990 | BZL1679 |

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Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1627024-41 | **Client Sample Name:** SB46-5N-00, 9/25/2016 9:56:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0010 | 0.00013 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0010 | 0.00012 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0010 | 0.000068 | EPA-8081A | 4.0 | A10 | 1 |
| **Chlordane (Technical)** | **0.012** | **mg/kg** | **0.10** | **0.0030** | **EPA-8081A** | 2.5 | **J,A10** | 1 |
| **4,4'-DDD** | **0.0033** | **mg/kg** | **0.0010** | **0.00017** | **EPA-8081A** | 1.0 | **A10** | 1 |
| **4,4'-DDE** | **0.0010** | **mg/kg** | **0.0010** | **0.00017** | **EPA-8081A** | 1.0 | **A10** | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0010 | 0.00016 | EPA-8081A | 1.0 | A10 | 1 |
| **Dieldrin** | **0.0021** | **mg/kg** | **0.0010** | **0.00014** | **EPA-8081A** | 8.0 | **A10** | 1 |
| Endosulfan I | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0010 | 0.00020 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0010 | 0.00019 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0010 | 0.00016 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.10 | 0.0026 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 56.1 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 52.1 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/29/16 | 09/30/16 17:01 | HKS | GC-17 | 2.013 | BZJ0116 |

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Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-41 | **Client Sample Name:** SB46-5N-00, 9/25/2016 9:56:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **12** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **24** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 2 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 16:52 | JCC | PE-OP3 | 4.902 | BZI2687 |
| 2 | EPA-6010B | 11/17/16 | 11/18/16 12:38 | JCC | PE-OP3 | 0.990 | BZK1737 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-42 | **Client Sample Name:** SB46-5N-12, 9/25/2016 9:58:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.8** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/17/16 | 11/18/16 12:40 | JCC | PE-OP3 | 0.926 | BZK1737 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1627024-44 | **Client Sample Name:** SB46-5E-00, 9/25/2016 9:52:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0010 | 0.00013 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0010 | 0.00012 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0010 | 0.000068 | EPA-8081A | 4.0 | A10 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.10 | 0.0030 | EPA-8081A | 2.5 | A10 | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 1.0 | A10 | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0010 | 0.00016 | EPA-8081A | 1.0 | A10 | 1 |
| Dieldrin | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | 8.0 | A10 | 1 |
| Endosulfan I | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0010 | 0.00020 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0010 | 0.00019 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0010 | 0.00016 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.10 | 0.0026 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 45.8 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 48.7 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/29/16 | 09/30/16 17:15 | HKS | GC-17 | 1.987 | BZJ0116 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-44 | **Client Sample Name:** SB46-5E-00, 9/25/2016 9:52:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **4.7** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **J,A07** | 1 |
| **Lead** | **7.8** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 2 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 16:54 | JCC | PE-OP3 | 4.808 | BZI2687 |
| 2 | EPA-6010B | 11/17/16 | 11/18/16 12:41 | JCC | PE-OP3 | 0.935 | BZK1737 |

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**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-45 | **Client Sample Name:** SB46-5E-12, 9/25/2016 9:54:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **6.5** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/17/16 | 11/18/16 12:42 | JCC | PE-OP3 | 0.935 | BZK1737 |

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**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1627024-47 | **Client Sample Name:** DUP4A-092516, 9/25/2016 3:20:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Aldrin | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 1.4 | A10 | 1 |
| alpha-BHC | ND | mg/kg | 0.0010 | 0.00013 | EPA-8081A | | A10 | 1 |
| beta-BHC | ND | mg/kg | 0.0010 | 0.00014 | EPA-8081A | | A10 | 1 |
| delta-BHC | ND | mg/kg | 0.0010 | 0.00012 | EPA-8081A | | A10 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0010 | 0.000068 | EPA-8081A | 4.0 | A10 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.10 | 0.0030 | EPA-8081A | 2.5 | A10 | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 1.0 | A10 | 1 |
| **4,4'-DDE** | **0.00040** | **mg/kg** | **0.0010** | **0.00017** | **EPA-8081A** | 1.0 | **J,A10** | 1 |
| **4,4'-DDT** | **0.00072** | **mg/kg** | **0.0010** | **0.00016** | **EPA-8081A** | 1.0 | **J,A10** | 1 |
| **Dieldrin** | **0.00059** | **mg/kg** | **0.0010** | **0.00014** | **EPA-8081A** | 8.0 | **J,A10** | 1 |
| Endosulfan I | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | | A10 | 1 |
| Endosulfan II | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | | A10 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0010 | 0.00020 | EPA-8081A | | A10 | 1 |
| Endrin | ND | mg/kg | 0.0010 | 0.00017 | EPA-8081A | 0.2 | A10 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0010 | 0.00019 | EPA-8081A | | A10 | 1 |
| Heptachlor | ND | mg/kg | 0.0010 | 0.00011 | EPA-8081A | 4.7 | A10 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0010 | 0.00016 | EPA-8081A | | A10 | 1 |
| Methoxychlor | ND | mg/kg | 0.0010 | 0.00022 | EPA-8081A | 100 | A10 | 1 |
| Toxaphene | ND | mg/kg | 0.10 | 0.0026 | EPA-8081A | 5 | A10 | 1 |
| TCMX (Surrogate) | 47.1 | % | 20 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |
| Decachlorobiphenyl (Surrogate) | 50.6 | % | 40 - 130 (LCL - UCL) | | EPA-8081A | | A10 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-8081A | 09/29/16 | 09/30/16 18:28 | HKS | GC-17 | 2 | BZJ0116 |

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E2 Managetech
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Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-47 | **Client Sample Name:** DUP4A-092516, 9/25/2016 3:20:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **5.1** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 16:56 | JCC | PE-OP3 | 4.762 | BZI2687 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-50 | **Client Sample Name:** SB23-5E-00, 9/25/2016 10:14:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **3.3** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/20/16 | 12/20/16 19:20 | JCC | PE-OP3 | 0.926 | BZL1679 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-53 | **Client Sample Name:** SB23-5S-00, 9/25/2016 10:23:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **110** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/20/16 | 12/20/16 19:22 | JCC | PE-OP3 | 0.971 | BZL1679 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-54 | **Client Sample Name:** SB23-5S-12, 9/25/2016 10:25:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **10** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/30/16 | 01/03/17 12:39 | JCC | PE-OP3 | 0.980 | BZL2441 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-56 | **Client Sample Name:** SB23-5W-00, 9/25/2016 10:31:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **4.0** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/20/16 | 12/20/16 19:23 | JCC | PE-OP3 | 0.935 | BZL1679 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-62 | **Client Sample Name:** SB23-10W-00, 9/25/2016 10:23:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **110** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/30/16 | 01/03/17 12:40 | JCC | PE-OP3 | 0.943 | BZL2441 |

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5001 Airport Plaza Drive, Suite 260
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**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

| **BCL Sample ID:** | 1627024-68 | **Client Sample Name:** | SB1-10N-00, 9/25/2016 11:25:00AM |
|---|---|---|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **9.0** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/19/16 | 10/20/16 11:44 | JCC | PE-OP3 | 1.905 | BZJ1818 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-71 | **Client Sample Name:** SB1-5S-00, 9/25/2016 11:27:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **7.5** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 16:57 | JCC | PE-OP3 | 4.762 | BZI2687 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-72 | **Client Sample Name:** SB1-5S-12, 9/25/2016 11:29:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **10** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/19/16 | 10/28/16 14:27 | JCC | PE-OP3 | 1.852 | BZJ1818 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-77 | **Client Sample Name:** SB1-5N-00, 9/25/2016 11:40:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **15** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 17:07 | JCC | PE-OP3 | 4.717 | BZI2687 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-78 | **Client Sample Name:** SB1-5N-12, 9/25/2016 11:49:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **10** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/19/16 | 10/20/16 11:36 | JCC | PE-OP3 | 1.905 | BZJ1818 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-79 | **Client Sample Name:** SB1-5W-00, 9/25/2016 11:50:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **10** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 17:09 | JCC | PE-OP3 | 4.762 | BZI2687 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-80 | **Client Sample Name:** SB1-5W-12, 9/25/2016 11:52:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **7.3** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/17/16 | 11/18/16 15:47 | JCC | PE-OP3 | 1.980 | BZK1737 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-82 | **Client Sample Name:** SB4-5W-00, 9/25/2016 12:18:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **9.6** | **mg/kg** | **3.5** | **1.4** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 17:11 | JCC | PE-OP3 | 3.497 | BZI2687 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-83 | **Client Sample Name:** SB4-5E-00, 9/25/2016 12:19:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **14** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 17:12 | JCC | PE-OP3 | 4.673 | BZI2687 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-84 | **Client Sample Name:** SB4-5E-12, 9/25/2016 12:21:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **20** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/19/16 | 10/20/16 11:37 | JCC | PE-OP3 | 1.835 | BZJ1818 |

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5001 Airport Plaza Drive, Suite 260
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**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-85 | **Client Sample Name:** SB4-5E-24, 9/25/2016 12:23:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **20** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/17/16 | 11/18/16 15:38 | JCC | PE-OP3 | 5 | BZK1737 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-86 | **Client Sample Name:** SB4-10E-00, 9/25/2016 12:24:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **7.5** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/19/16 | 10/20/16 11:39 | JCC | PE-OP3 | 1.942 | BZJ1818 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-87 | **Client Sample Name:** SB4-10E-12, 9/25/2016 12:26:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **13** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/17/16 | 11/18/16 15:48 | JCC | PE-OP3 | 4.630 | BZK1737 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-88 | **Client Sample Name:** SB4-10E-24, 9/25/2016 12:28:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **21** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/21/16 | 12/22/16 11:34 | JCC | PE-OP3 | 1.905 | BZL1781 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-89 | **Client Sample Name:** SB4-5S-00, 9/25/2016 12:28:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **11** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 17:14 | JCC | PE-OP3 | 4.902 | BZI2687 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627024-95 | **Client Sample Name:** SB6-5W-00, 9/25/2016 1:23:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **7.0** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 17:16 | JCC | PE-OP3 | 4.808 | BZI2687 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZJ0116** | | | | | | |
| Aldrin | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000055 | |
| alpha-BHC | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000064 | |
| beta-BHC | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000071 | |
| delta-BHC | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000059 | |
| gamma-BHC (Lindane) | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000034 | |
| Chlordane (Technical) | BZJ0116-BLK1 | ND | mg/kg | 0.050 | 0.0015 | |
| 4,4'-DDD | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000085 | |
| 4,4'-DDE | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000083 | |
| 4,4'-DDT | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000078 | |
| Dieldrin | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000070 | |
| Endosulfan I | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000087 | |
| Endosulfan II | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.00011 | |
| Endosulfan sulfate | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000099 | |
| Endrin | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000087 | |
| Endrin aldehyde | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000097 | |
| Heptachlor | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000057 | |
| Heptachlor epoxide | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.000078 | |
| Methoxychlor | BZJ0116-BLK1 | ND | mg/kg | 0.00050 | 0.00011 | |
| Toxaphene | BZJ0116-BLK1 | ND | mg/kg | 0.050 | 0.0013 | |
| **TCMX (Surrogate)** | **BZJ0116-BLK1** | **90.3** | % | **20 - 130 (LCL - UCL)** | | |
| **Decachlorobiphenyl (Surrogate)** | **BZJ0116-BLK1** | **99.0** | % | **40 - 130 (LCL - UCL)** | | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZJ0116** | | | | | | | | | | |
| Aldrin | BZJ0116-BS1 | LCS | 0.0044893 | 0.0050167 | mg/kg | 89.5 | | 70 - 130 | | |
| gamma-BHC (Lindane) | BZJ0116-BS1 | LCS | 0.0044900 | 0.0050167 | mg/kg | 89.5 | | 60 - 140 | | |
| 4,4'-DDT | BZJ0116-BS1 | LCS | 0.0057054 | 0.0050167 | mg/kg | 114 | | 60 - 140 | | |
| Dieldrin | BZJ0116-BS1 | LCS | 0.0043676 | 0.0050167 | mg/kg | 87.1 | | 70 - 130 | | |
| Endrin | BZJ0116-BS1 | LCS | 0.0044843 | 0.0050167 | mg/kg | 89.4 | | 60 - 140 | | |
| Heptachlor | BZJ0116-BS1 | LCS | 0.0046759 | 0.0050167 | mg/kg | 93.2 | | 60 - 140 | | |
| TCMX (Surrogate) | BZJ0116-BS1 | LCS | 0.0081298 | 0.010033 | mg/kg | 81.0 | | 20 - 130 | | |
| Decachlorobiphenyl (Surrogate) | BZJ0116-BS1 | LCS | 0.019744 | 0.020067 | mg/kg | 98.4 | | 40 - 130 | | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Organochlorine Pesticides (EPA Method 8081A)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZJ0116** | Used client sample: Y - Description: SB36-5S-00, 09/24/2016 08:19 | | | | | | | | | | |
| **Aldrin** | MS | **1627023-07** | **ND** | **0.0024436** | **0.0050676** | **mg/kg** | | **48.2** | | **50 - 140** | **Q03** |
| | MSD | **1627023-07** | **ND** | **0.0023732** | **0.0049669** | **mg/kg** | **2.9** | **47.8** | **30** | **50 - 140** | **Q03** |
| **gamma-BHC (Lindane)** | MS | **1627023-07** | **ND** | **0.0022361** | **0.0050676** | **mg/kg** | | **44.1** | | **50 - 140** | **Q03** |
| | MSD | **1627023-07** | **ND** | **0.0021656** | **0.0049669** | **mg/kg** | **3.2** | **43.6** | **30** | **50 - 140** | **Q03** |
| **4,4'-DDT** | MS | **1627023-07** | **0.0026013** | **0.0047409** | **0.0050676** | **mg/kg** | | **42.2** | | **50 - 140** | **Q03** |
| | MSD | **1627023-07** | **0.0026013** | **0.0043182** | **0.0049669** | **mg/kg** | **9.3** | **34.6** | **30** | **50 - 140** | **Q03** |
| **Dieldrin** | MS | **1627023-07** | **0.00094868** | **0.0027436** | **0.0050676** | **mg/kg** | | **35.4** | | **40 - 140** | **Q03** |
| | MSD | **1627023-07** | **0.00094868** | **0.0026146** | **0.0049669** | **mg/kg** | **4.8** | **33.5** | **30** | **40 - 140** | **Q03** |
| Endrin | MS | 1627023-07 | ND | 0.0035564 | 0.0050676 | mg/kg | | 70.2 | | 50 - 150 | |
| | MSD | 1627023-07 | ND | 0.0033401 | 0.0049669 | mg/kg | 6.3 | 67.2 | 30 | 50 - 150 | |
| **Heptachlor** | MS | **1627023-07** | **ND** | **0.0021017** | **0.0050676** | **mg/kg** | | **41.5** | | **60 - 140** | **Q03** |
| | MSD | **1627023-07** | **ND** | **0.0020060** | **0.0049669** | **mg/kg** | **4.7** | **40.4** | **30** | **60 - 140** | **Q03** |
| TCMX (Surrogate) | MS | 1627023-07 | ND | 0.0038601 | 0.010135 | mg/kg | | 38.1 | | 20 - 130 | |
| | MSD | 1627023-07 | ND | 0.0037401 | 0.0099338 | mg/kg | 3.2 | 37.7 | | 20 - 130 | |
| Decachlorobiphenyl (Surrogate) | MS | 1627023-07 | ND | 0.0094584 | 0.020270 | mg/kg | | 46.7 | | 40 - 130 | |
| | MSD | 1627023-07 | ND | 0.0083699 | 0.019868 | mg/kg | 12.2 | 42.1 | | 40 - 130 | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZI2687** | | | | | | |
| Arsenic | BZI2687-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| **QC Batch ID: BZJ1755** | | | | | | |
| Arsenic | BZJ1755-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| **QC Batch ID: BZJ1818** | | | | | | |
| Arsenic | BZJ1818-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| **QC Batch ID: BZK1606** | | | | | | |
| Arsenic | BZK1606-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| **QC Batch ID: BZK1687** | | | | | | |
| Arsenic | BZK1687-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| **QC Batch ID: BZK1737** | | | | | | |
| Arsenic | BZK1737-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| Lead | BZK1737-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| **QC Batch ID: BZK1862** | | | | | | |
| Lead | BZK1862-BLK2 | ND | mg/kg | 2.5 | 0.28 | |
| **QC Batch ID: BZL1679** | | | | | | |
| Lead | BZL1679-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| **QC Batch ID: BZL1781** | | | | | | |
| Arsenic | BZL1781-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| **QC Batch ID: BZL2441** | | | | | | |
| **Lead** | **BZL2441-BLK1** | **0.43713** | **mg/kg** | **2.5** | **0.28** | **J** |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZI2687** | | | | | | | | | | |
| Arsenic | BZI2687-BS1 | LCS | 9.9033 | 10.000 | mg/kg | 99.0 | | 75 - 125 | | |
| **QC Batch ID: BZJ1755** | | | | | | | | | | |
| Arsenic | BZJ1755-BS1 | LCS | 9.0817 | 10.000 | mg/kg | 90.8 | | 75 - 125 | | |
| **QC Batch ID: BZJ1818** | | | | | | | | | | |
| Arsenic | BZJ1818-BS1 | LCS | 8.5683 | 10.000 | mg/kg | 85.7 | | 75 - 125 | | |
| **QC Batch ID: BZK1606** | | | | | | | | | | |
| Arsenic | BZK1606-BS1 | LCS | 9.0426 | 10.000 | mg/kg | 90.4 | | 75 - 125 | | |
| **QC Batch ID: BZK1687** | | | | | | | | | | |
| Arsenic | BZK1687-BS1 | LCS | 10.469 | 10.000 | mg/kg | 105 | | 75 - 125 | | |
| **QC Batch ID: BZK1737** | | | | | | | | | | |
| Arsenic | BZK1737-BS1 | LCS | 9.1360 | 10.000 | mg/kg | 91.4 | | 75 - 125 | | |
| Lead | BZK1737-BS1 | LCS | 94.075 | 100.00 | mg/kg | 94.1 | | 75 - 125 | | |
| **QC Batch ID: BZK1862** | | | | | | | | | | |
| Lead | BZK1862-BS2 | LCS | 98.441 | 100.00 | mg/kg | 98.4 | | 75 - 125 | | |
| **QC Batch ID: BZL1679** | | | | | | | | | | |
| Lead | BZL1679-BS1 | LCS | 99.594 | 100.00 | mg/kg | 99.6 | | 75 - 125 | | |
| **QC Batch ID: BZL1781** | | | | | | | | | | |
| Arsenic | BZL1781-BS1 | LCS | 10.653 | 10.000 | mg/kg | 107 | | 75 - 125 | | |
| **QC Batch ID: BZL2441** | | | | | | | | | | |
| Lead | BZL2441-BS1 | LCS | 110.12 | 100.00 | mg/kg | 110 | | 75 - 125 | | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZI2687** | Used client sample: Y - Description: SB41-5W-00, 09/25/2016 08:10 | | | | | | | | | | |
| Arsenic | DUP | 1627024-07 | 9.8994 | 11.066 | | mg/kg | 11.1 | | 20 | | |
| | MS | 1627024-07 | 9.8994 | 19.593 | 10.000 | mg/kg | | 96.9 | | 75 - 125 | |
| | MSD | 1627024-07 | 9.8994 | 19.479 | 10.000 | mg/kg | 0.6 | 95.8 | 20 | 75 - 125 | |
| **QC Batch ID: BZJ1755** | Used client sample: N | | | | | | | | | | |
| **Arsenic** | DUP | **1628797-01** | **6.0764** | **7.2152** | | **mg/kg** | **17.1** | | **20** | | |
| | MS | **1628797-01** | **6.0764** | **15.500** | **10.000** | **mg/kg** | | **94.2** | | **75 - 125** | |
| | MSD | **1628797-01** | **6.0764** | **13.164** | **10.000** | **mg/kg** | **16.3** | **70.9** | **20** | **75 - 125** | **Q03** |
| **QC Batch ID: BZJ1818** | Used client sample: Y - Description: SB19-5W-00, 10/01/2016 13:45 | | | | | | | | | | |
| **Arsenic** | DUP | **1627779-01RE1** | **12.286** | **10.718** | | **mg/kg** | **13.6** | | **20** | | |
| | MS | **1627779-01RE1** | **12.286** | **21.885** | **10.000** | **mg/kg** | | **96.0** | | **75 - 125** | |
| | MSD | **1627779-01RE1** | **12.286** | **19.202** | **10.000** | **mg/kg** | **13.1** | **69.2** | **20** | **75 - 125** | **Q03** |
| **QC Batch ID: BZK1606** | Used client sample: Y - Description: SB36-5S-00, 09/24/2016 08:19 | | | | | | | | | | |
| Arsenic | DUP | 1627023-07 | 0.91681 | 1.1206 | | mg/kg | 20.0 | | 20 | | |
| | MS | 1627023-07 | 0.91681 | 10.206 | 10.000 | mg/kg | | 92.9 | | 75 - 125 | |
| | MSD | 1627023-07 | 0.91681 | 10.633 | 10.000 | mg/kg | 4.1 | 97.2 | 20 | 75 - 125 | |
| **QC Batch ID: BZK1687** | Used client sample: Y - Description: SB44-10N-00, 09/25/2016 09:00 | | | | | | | | | | |
| Arsenic | DUP | 1627024-17 | 11.478 | 12.405 | | mg/kg | 7.8 | | 20 | | |
| | MS | 1627024-17 | 11.478 | 19.757 | 10.000 | mg/kg | | 82.8 | | 75 - 125 | |
| | MSD | 1627024-17 | 11.478 | 21.672 | 10.000 | mg/kg | 9.2 | 102 | 20 | 75 - 125 | |
| **QC Batch ID: BZK1737** | Used client sample: Y - Description: SB4-5E-24, 09/25/2016 12:23 | | | | | | | | | | |
| **Arsenic** | DUP | **1627024-85** | **20.002** | **11.095** | | **mg/kg** | **57.3** | | **20** | | **Q01** |
| | MS | **1627024-85** | **20.002** | **22.327** | **10.000** | **mg/kg** | | **23.2** | | **75 - 125** | **Q03** |
| | MSD | **1627024-85** | **20.002** | **17.254** | **10.000** | **mg/kg** | **25.6** | **-27.5** | **20** | **75 - 125** | **Q03** |
| Lead | DUP | 1627024-85 | 3.9623 | 3.9138 | | mg/kg | 1.2 | | 20 | | J |
| | MS | 1627024-85 | 3.9623 | 88.413 | 100.00 | mg/kg | | 84.5 | | 75 - 125 | |
| | MSD | 1627024-85 | 3.9623 | 90.486 | 100.00 | mg/kg | 2.3 | 86.5 | 20 | 75 - 125 | |
| **QC Batch ID: BZK1862** | Used client sample: Y - Description: SB46-5S-00, 09/25/2016 09:47 | | | | | | | | | | |
| Lead | DUP | 627024-38RE1 | 18.926 | 18.304 | | mg/kg | 3.3 | | 20 | | |
| | MS | 627024-38RE1 | 18.926 | 115.53 | 100.00 | mg/kg | | 96.6 | | 75 - 125 | |
| | MSD | 627024-38RE1 | 18.926 | 120.31 | 100.00 | mg/kg | 4.1 | 101 | 20 | 75 - 125 | |
| **QC Batch ID: BZL1679** | Used client sample: N | | | | | | | | | | |
| Lead | DUP | 1634960-23 | 12.626 | 13.210 | | mg/kg | 4.5 | | 20 | | |
| | MS | 1634960-23 | 12.626 | 90.594 | 100.00 | mg/kg | | 78.0 | | 75 - 125 | |
| | MSD | 1634960-23 | 12.626 | 93.596 | 100.00 | mg/kg | 3.3 | 81.0 | 20 | 75 - 125 | |
| **QC Batch ID: BZL1781** | Used client sample: N | | | | | | | | | | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZL1781** | Used client sample: N | | | | | | | | | | |
| Arsenic | DUP | 1634749-01 | ND | ND | | mg/kg | | | 20 | | |
| | MS | 1634749-01 | ND | 10.360 | 10.000 | mg/kg | | 104 | | 75 - 125 | |
| | MSD | 1634749-01 | ND | 10.090 | 10.000 | mg/kg | 2.6 | 101 | 20 | 75 - 125 | |
| **QC Batch ID: BZL2441** | Used client sample: N | | | | | | | | | | |
| Lead | DUP | 1634958-17 | 50.586 | 57.202 | | mg/kg | 12.3 | | 20 | | |
| | MS | 1634958-17 | 50.586 | 132.86 | 100.00 | mg/kg | | 82.3 | | 75 - 125 | |
| | MSD | 1634958-17 | 50.586 | 130.31 | 100.00 | mg/kg | 1.9 | 79.7 | 20 | 75 - 125 | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:19
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

## Notes And Definitions

| | |
|---|---|
| J | Estimated Value (CLP Flag) |
| MDL | Method Detection Limit |
| ND | Analyte Not Detected |
| PQL | Practical Quantitation Limit |
| A07 | Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference. |
| A10 | Detection and quantitation limits were raised due to matrix interference. |
| Q01 | Sample precision is not within the control limits. |
| Q03 | Matrix spike recovery(s) is(are) not within the control limits. |

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Date of Report: 01/04/2017

Travis Stravasnik

E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

| | |
|---|---|
| Client Project: | [none] |
| BCL Project: | LAUSD-San Pedro High School |
| BCL Work Order: | 1627025 |
| Invoice ID: | B248196, B252466, B255129, B255948 |

Enclosed are the results of analyses for samples received by the laboratory on 9/27/2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature



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**1627025-07 - SB6-5E-00**

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# BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

9/19

16-27025

## Chain of Custody

* Required Fields

TEMP: _____

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Carbon Copies:** CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

**Regulatory Compliance** Electronic Data Transfer: Y ☐ N ☐ System No. *

ANALYSIS REQUESTED

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -1 | | 9/25/16 | 1547 | SB DUPGB-092516 | soil | HOLD | | | |
| -2 | | | 1549 | SB DUPEC-092516 | soil | | | | |
| -3 | | | 1346 | SB 6-10N-12 | soil | | | | |
| -4 | | | 1347 | SB 6-10N-24 | soil | | | | |
| -5 | | | 1350 | SB 6-5N-00 | soil | | | X | |
| -6 | | | 1404 | SB 6-10E-00 | soil | HOLD | | | |
| -7 | | | 1424 | SB 6-5E-00 | soil | | | X | |
| -8 | | | 1427 | SB 6-5E-12 | soil | HOLD | | | |
| -9 | | | 1436 | SB 6-5E-24 | soil | | | | |
| | | | | SB - | soil | | | | |
| | | | | SB - | soil | | | | |

CHK BY DISTRIBUTION

SUB-OUT ☐

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 9/26/16 | 1120 | | BC Labs |
| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
| | BC Labs | 9/27/16 | 520 | | BCL |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: | |
| | | 9/27/16 | 1900 | Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER 9:27 1900

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

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**Chain of Custody and Cooler Receipt Form for 1627025 Page 2 of 3**

Page 1 Of 2

BC LABORATORIES INC. — COOLER RECEIPT FORM

Submission #: 16-27025

SHIPPING INFORMATION: Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ BC Lab Field Service ☒ Other ☐ (Specify)

SHIPPING CONTAINER: Ice Chest ☒ None ☐ Box ☐ Other ☐ (Specify)

FREE LIQUID: YES ☐ NO ☐ W / (S)

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: Glass Thermometer ID: 208 Date/Time: 9.27.16 1902

Temperature: (A) 0.3 °C / (C) 0.5 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | A | A | A | |
| 8oz / 16oz / 32oz AMBER | A | A | | | | | | | | |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments: COA

Sample Numbering Completed By: Date/Time: 9/28/16 1225

Rev 21 05/23/20

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**Chain of Custody and Cooler Receipt Form for 1627025 Page 3 of 3**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 2

Submission #: 16-27025

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / (S) |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☐ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: IR Glass Thermometer ID: 208 Date/Time: 9.27.16 1902

Temperature: (A) 0.2 °C / (C) 0.4 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| (8oz) / 16oz / 32oz JAR | | | A | A | A | A | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: MA Date/Time: 9/28/16 1225 Rev 21 05/23/2016

E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:31
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627025-01** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 15:47 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP6B-092516 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627025-02** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 15:49 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP6C-092516 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627025-03** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 13:46 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB6-10N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627025-04** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 13:47 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB6-10N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627025-05** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 13:50 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB6-5N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627025-06** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 14:04 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB6-10E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627025-07** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 14:24 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB6-5E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:31
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627025-08** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 14:27 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB6-5E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627025-09** | **COC Number:** | --- | **Receive Date:** | 09/27/2016 19:00 |
| | **Project Number:** | --- | **Sampling Date:** | 09/25/2016 14:36 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB6-5E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:31
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627025-05 | **Client Sample Name:** SB6-5N-00, 9/25/2016 1:50:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **12** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 14:58 | JCC | PE-OP3 | 0.971 | BZI2687 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:31
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627025-06 | **Client Sample Name:** SB6-10E-00, 9/25/2016 2:04:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **15** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/17/16 | 11/18/16 15:21 | JCC | PE-OP3 | 1.905 | BZK1737 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:31
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627025-07 | **Client Sample Name:** SB6-5E-00, 9/25/2016 2:24:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **14** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 09/29/16 | 10/03/16 14:59 | JCC | PE-OP3 | 0.962 | BZI2687 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:31
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627025-08 | **Client Sample Name:** SB6-5E-12, 9/25/2016 2:27:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **14** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/21/16 | 12/22/16 11:35 | JCC | PE-OP3 | 1.923 | BZL1781 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:31
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627025-09 | **Client Sample Name:** SB6-5E-24, 9/25/2016 2:36:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **15** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/30/16 | 01/03/17 13:41 | JCC | PE-OP3 | 4.762 | BZL2441 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:31
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZI2687** | | | | | | |
| Arsenic | BZI2687-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| **QC Batch ID: BZK1737** | | | | | | |
| Arsenic | BZK1737-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| **QC Batch ID: BZL1781** | | | | | | |
| Arsenic | BZL1781-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| **QC Batch ID: BZL2441** | | | | | | |
| Arsenic | BZL2441-BLK1 | ND | mg/kg | 1.0 | 0.40 | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:31
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZI2687** | | | | | | | | | | |
| Arsenic | BZI2687-BS1 | LCS | 9.9033 | 10.000 | mg/kg | 99.0 | | 75 - 125 | | |
| **QC Batch ID: BZK1737** | | | | | | | | | | |
| Arsenic | BZK1737-BS1 | LCS | 9.1360 | 10.000 | mg/kg | 91.4 | | 75 - 125 | | |
| **QC Batch ID: BZL1781** | | | | | | | | | | |
| Arsenic | BZL1781-BS1 | LCS | 10.653 | 10.000 | mg/kg | 107 | | 75 - 125 | | |
| **QC Batch ID: BZL2441** | | | | | | | | | | |
| Arsenic | BZL2441-BS1 | LCS | 10.300 | 10.000 | mg/kg | 103 | | 75 - 125 | | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:31
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZI2687** | Used client sample: Y - Description: SB41-5W-00, 09/25/2016 08:10 | | | | | | | | | | |
| Arsenic | DUP | 1627024-07 | 9.8994 | 11.066 | | mg/kg | 11.1 | | 20 | | |
| | MS | 1627024-07 | 9.8994 | 19.593 | 10.000 | mg/kg | | 96.9 | | 75 - 125 | |
| | MSD | 1627024-07 | 9.8994 | 19.479 | 10.000 | mg/kg | 0.6 | 95.8 | 20 | 75 - 125 | |
| **QC Batch ID: BZK1737** | Used client sample: Y - Description: SB4-5E-24, 09/25/2016 12:23 | | | | | | | | | | |
| **Arsenic** | DUP | **1627024-85** | **20.002** | **11.095** | | **mg/kg** | **57.3** | | **20** | | **Q01** |
| | MS | **1627024-85** | **20.002** | **22.327** | **10.000** | **mg/kg** | | **23.2** | | **75 - 125** | **Q03** |
| | MSD | **1627024-85** | **20.002** | **17.254** | **10.000** | **mg/kg** | **25.6** | **-27.5** | **20** | **75 - 125** | **Q03** |
| **QC Batch ID: BZL1781** | Used client sample: N | | | | | | | | | | |
| Arsenic | DUP | 1634749-01 | ND | ND | | mg/kg | | | 20 | | |
| | MS | 1634749-01 | ND | 10.360 | 10.000 | mg/kg | | 104 | | 75 - 125 | |
| | MSD | 1634749-01 | ND | 10.090 | 10.000 | mg/kg | 2.6 | 101 | 20 | 75 - 125 | |
| **QC Batch ID: BZL2441** | Used client sample: N | | | | | | | | | | |
| Arsenic | DUP | 1634958-17 | 7.5757 | 8.0043 | | mg/kg | 5.5 | | 20 | | |
| | MS | 1634958-17 | 7.5757 | 16.623 | 10.000 | mg/kg | | 90.5 | | 75 - 125 | |
| | MSD | 1634958-17 | 7.5757 | 17.485 | 10.000 | mg/kg | 5.1 | 99.1 | 20 | 75 - 125 | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/04/2017 15:31
Project: LAUSD-San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

## Notes And Definitions

| | |
|---|---|
| MDL | Method Detection Limit |
| ND | Analyte Not Detected |
| PQL | Practical Quantitation Limit |
| A07 | Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference. |
| Q01 | Sample precision is not within the control limits. |
| Q03 | Matrix spike recovery(s) is(are) not within the control limits. |

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Date of Report: 01/10/2017

Travis Stravasnik

E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

| | |
|---|---|
| Client Project: | [none] |
| BCL Project: | LAUSD - San Pedro HS |
| BCL Work Order: | 1627778 |
| Invoice ID: | B249920, B252503, B255130, B255949, B256468 |

Enclosed are the results of analyses for samples received by the laboratory on 10/3/2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature



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**Sample Results**

**1627778-04 - SB37-5W-00**
Total Concentrations (TTLC) ..... 39
**1627778-07 - SB37-5E-00**
Total Concentrations (TTLC) ..... 40
**1627778-13 - SB37-5S-00**
Total Concentrations (TTLC) ..... 41
**1627778-14 - SB37-5S-12**
Total Concentrations (TTLC) ..... 42
**1627778-15 - SB37-5S-24**
Total Concentrations (TTLC) ..... 43
**1627778-16 - SB2-5W-00**
Total Concentrations (TTLC) ..... 44
**1627778-17 - SB2-5E-00**
Total Concentrations (TTLC) ..... 45
**1627778-25 - SB2-5N-00**
Total Concentrations (TTLC) ..... 46
**1627778-31 - SB3-5S-00**
Total Concentrations (TTLC) ..... 47
**1627778-37 - SB8-5S-00**
Total Concentrations (TTLC) ..... 48
**1627778-38 - SB8-5S-12**
Total Concentrations (TTLC) ..... 49
**1627778-40 - SB8-5N-00**
Total Concentrations (TTLC) ..... 50
**1627778-41 - SB8-5N-12**
Total Concentrations (TTLC) ..... 51
**1627778-43 - SB8-10S-00**
Total Concentrations (TTLC) ..... 52
**1627778-49 - SB7-10W-00**
Total Concentrations (TTLC) ..... 53
**1627778-52 - SB7-5E-00**
Total Concentrations (TTLC) ..... 54
**1627778-55 - SB7-5W-00**
Total Concentrations (TTLC) ..... 55
**1627778-56 - SB7-5W-12**
Total Concentrations (TTLC) ..... 56
**1627778-58 - SB7-5S-00**
Total Concentrations (TTLC) ..... 57
**1627778-59 - SB7-5S-12**
Total Concentrations (TTLC) ..... 58
**1627778-60 - SB7-5S-24**
Total Concentrations (TTLC) ..... 59
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Total Concentrations (TTLC) ..... 60
**1627778-64 - SB11-10W-00**
Total Concentrations (TTLC) ..... 61
**1627778-65 - SB11-10W-12**
Total Concentrations (TTLC) ..... 62
**1627778-66 - SB11-10W-24**
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# Table of Contents

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Total Concentrations (TTLC)..... 64
**1627778-68 - SB11-5E-12**
Total Concentrations (TTLC)..... 65
**1627778-69 - SB11-5E-24**
Total Concentrations (TTLC)..... 66
**1627778-70 - SB11-5W-00**
Total Concentrations (TTLC)..... 67
**1627778-71 - SB11-5W-12**
Total Concentrations (TTLC)..... 68
**1627778-72 - SB11-5W-24**
Total Concentrations (TTLC)..... 69
**1627778-73 - SB11-10S-00**
Total Concentrations (TTLC)..... 70
**1627778-76 - SB11-5S-00**
Total Concentrations (TTLC)..... 71
**1627778-77 - SB11-5S-12**
Total Concentrations (TTLC)..... 72
**1627778-81 - SB15-10W-00**
Total Concentrations (TTLC)..... 73
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Total Concentrations (TTLC)..... 74
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Total Concentrations (TTLC)..... 75
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Total Concentrations (TTLC)..... 77
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# BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

1/16

16-27778

## Chain of Custody

* Required Fields

TEMP: _____

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Carbon Copies:** CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

**Regulatory Compliance** Electronic Data Transfer: Y ☐ N ☐ System No. *

ANALYSIS REQUESTED

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -1 | | 10/01/16 | 0736 | SB 37 - 10W - 00 | soil | HOLD | | X | |
| -2 | | | 0739 | SB 37 - 10W - 12 | soil | ↓ | | | |
| -3 | | | 0741 | SB 37 - 10W - 24 | soil | | | | |
| -4 | | | 0744 | SB 37 - 5W - 00 | soil | | | X | |
| -5 | | | 0746 | SB 37 - 5W - 12 | soil | HOLD | | | |
| -6 | | | 0748 | SB 37 - 5W - 24 | soil | ↓ | | | |
| -7 | | | 0749 | SB 37 - 5E - 00 | soil | | | X | |
| -8 | | | 0753 | SB 37 - 5E - 12 | soil | HOLD | | | |
| -9 | | | 0756 | SB 37 - 5E - 24 | soil | ↓ | | | |
| -10 | | | 0738 | SB 37 - 10E - 00 | soil | HOLD | | X | |
| -11 | | ↓ | 0740 | SB 37 - 10E - 12 | soil | ↓ | | | |

CHK BY DISTRIBUTION WHITE ☐ SUB-OUT ☐

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 10/3/16 | 0930 | Kevin Lin | E2MT |
| K. Lin | E2MT | 10/3/16 | 1228 | John Woodward | BC Labs |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: | |
| | | 10/3/16 | 2 45 | Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

10-3-16 1630

10-3-16 16:30

SR-FL-0012-00 (Analytical)

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16-27778

4/18

## Chain of Custody

* Required Fields

TEMP: _____

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Carbon Copies:** CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

**Regulatory Compliance** Electronic Data Transfer: Y ☐ N ☐ System No. *

ANALYSIS REQUESTED

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -12 | | 10/01/16 | ~~0746~~ 0745 | SB 37 - 10E - 24 | soil | HOLD | | | |
| -13 | | | ~~0746~~ 0750 | SB 37 - 5S - 00 | soil | | | X | |
| -14 | | | ~~0750~~ 0755 | SB 37 - 5S - 12 | soil | HOLD | | | |
| -15 | | | 0755 | SB 37 - 5S - 24 | soil | ↓ | | | |
| -16 | | | 0823 | ~~SB~~ SB 2-5W-00 | soil | | | X | |
| -17 | | | 0825 | SB 2 - 5E - 00 | soil | | | X | |
| -18 | | | 0828 | SB 2 - 5E - 12 | soil | HOLD | | | |
| -19 | | | 0816 | SB 2 - 10E - 00 | soil | HOLD | | X | |
| -20 | | | 0818 | SB 2 - 10E - 12 | soil | HOLD | | | |
| -21 | | | 0822 | SB 2 - 10E - 24 | soil | HOLD | | | |
| -22 | | ↓ | 0815 | SB 2 - 10W - 00 | soil | HOLD | | X | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 10/3/16 | 0930 | K. Lin | E2MT |
| K. Lin | E2MT | 10/3/16 | 1220 | | BC Labs |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: | |
| | | 10/3/16 | 2:48 | Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

10-3-16 1630

10-3-16 16:30

SR-FL-0012-00 (Analytical)

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3/18

16-27778

## Chain of Custody

* Required Fields

TEMP: _____

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y☐ N☐ System No. *

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -23 | | 10/01/16 | 0819 | SB 2 - 10W - 12 | soil | HOLD | | | |
| -24 | | | 0821 | SB 2 - 10W - 24 | soil | ↓ | | | |
| -25 | | | 0839 | SB 2 - 5N - 00 | soil | | | X | |
| -26 | | | 0844 | SB 2 - 5N - 12 | soil | HOLD | | | |
| -27 | | | 0845 | SB 2 - 5N - 24 | soil | ↓ | | | |
| -28 | | | 0829 | SB 2 - 10N - 00 | soil | HOLD | | X | |
| -29 | | | 0834 | SB 2 - 10N - 12 | soil | HOLD | | | |
| -30 | | | 0836 | SB 2 - 10N - 24 | soil | ↓ | | | |
| -31 | | | 0903 | SB 3 - 5S - 00 | soil | | | ✓ | |
| -32 | | | 0912 | SB 3 - 5S - 12 | soil | HOLD | | | |
| -33 | | ↓ | 0917 | SB 3 - 5S - 24 | soil | ↓ | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by: (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 10/3/16 | 0930 | K. Lin | E2MT |
| K. Lin | E2MT | 10/3/16 | 1220 | Johny Wood | BC Labs |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: | |
| | | 10/3/16 | 245 | Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

10-3-16 1630

10-3-16 16:30

SR-FL-0012-00 (Analytical)

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16-27778

## Chain of Custody

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TEMP: _____

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Carbon Copies:** CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

**Regulatory Compliance** Electronic Data Transfer: Y ☐ N ☐ System No. *

ANALYSIS REQUESTED

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -34 | | 10/01/16 | 0904 | SB 3 - 10S - 00 | soil | HOLD | | | |
| -35 | | | 0914 | SB 3 - 10S - 12 | soil | HOLD | | | |
| -36 | | | 0928 | SB 3 - 10S - 24 | soil | HOLD | | | |
| -37 | | | 0931 | SB 8 - 5S - 00 | soil | | | X | |
| -38 | | | 0935 | SB 8 - 5S - 12 | soil | HOLD | | | |
| -39 | | | 0940 | SB 8 - 5S - 24 | soil | HOLD | | | |
| -40 | | | 0928 | SB 8 - 5N - 00 | soil | | | X | |
| -41 | | | 0934 | SB 8 - 5N - 12 | soil | HOLD | | | |
| -42 | | | 0941 | SB 8 - 5N - 24 | soil | HOLD | | | |
| -43 | | | 0941 | SB 8 - 10S - 00 | soil | HOLD | | | |
| -44 | | | 0947 | SB 8 - 10S - 12 | soil | HOLD | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 10/1/16 | 0930 | K. Lin | E2MT |
| K. Lin | E2MT | 10/3/16 | 1220 | | BC Labs |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init. | |
| | | 10/3/16 | 2 45 | | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

10-3-16 1630

10-3-16 1630

SR-FL-0012-00 (Analytical)

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Environmental Testing Laboratory Since 1949

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16-27778

5/18

## Chain of Custody

* Required Fields

TEMP: _____

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Carbon Copies:** CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

**Regulatory Compliance** Electronic Data Transfer: Y ☐ N ☐ System No. *

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -45 | | 10/01/16 | 0955 | SB 8 - 10S - 24 | soil | HOLD | | | |
| -46 | | | 0949 | SB 7 - 10E - 00 | soil | | | | |
| -47 | | | 0957 | SB 7 - 10E - 12 | soil | | | | |
| -48 | | | 1001 | SB 7 - 10E - 24 | soil | | | | |
| -49 | | | 1002 | SB 7 - 10W - 00 | soil | | | | |
| -50 | | | 1004 | SB 7 - 10W - 12 | soil | | | | |
| -51 | | | 1005 | SB 7 - 10W - 24 | soil | | | | |
| -52 | | | 1006 | SB 7 - 5E - 00 | soil | | | X | |
| -53 | | | 1010 | SB 7 - 5E - 12 | soil | HOLD | | | |
| -54 | | | 1013 | SB 7 - 5E - 24 | soil | | | | |
| -55 | | | 1006 | SB 7 - 5W - 00 | soil | | | X | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 10/3/16 | 0930 | K. Lin | E2MT |
| K. Lin | E2MT | 10/3/16 | 1220 | John Ward | BC labs |
| Received for Lab by: (Signature and Printed Name) John Ward | | 10/3/16 | 2:40 | Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

10-3-16 1630

10-3-16 16:30

SR-FL-0012-00 (Analytical)

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6/18

16-27778

## Chain of Custody

* Required Fields

TEMP: _____

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Carbon Copies:** CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

**Regulatory Compliance** Electronic Data Transfer: Y ☐ N ☐ System No. *

ANALYSIS REQUESTED

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -56 | | 10/01/16 | 1013 | SB 7 - 5W - 12 | soil | HOLD | | | |
| -57 | | | 1017 | SB 7 - 5W - 24 | soil | ↓ | | | |
| -58 | | | 1020 | SB 7 - 5S - 00 | soil | | | X | |
| -59 | | | 1022 | SB 7 - 5S - 12 | soil | HOLD | | | |
| -60 | | | 1024 | SB 7 - 5S - 24 | soil | ↓ | | | |
| -61 | | | 1059 | SB 11 - 10E - 00 | soil | HOLD | | | |
| -62 | | | 1102 | SB 11 - 10E - 12 | soil | | | | |
| -63 | | | 1108 | SB 11 - 10E - 24 | soil | | | | |
| -64 | | | 1102 | SB 11 - 10W - 00 | soil | | | | |
| -65 | | | 1105 | SB 11 - 10W - 12 | soil | | | | |
| -66 | | ↓ | 1110 | SB 11 - 10W - 24 | soil | ↓ | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 10/3/16 | 0930 | K. Lin | E2MT |
| K. Lin | E2MT | 10/3/16 | 1220 | Jolyn Ward | BC Labs |
| Received for Lab by: (Signature and Printed Name) Jolyn Ward | | 10/3/16 | 1245 | Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

10-3-16 1630 10-3-16 1630

SR-FL-0012-00 (Analytical)

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BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

# BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

7/18

16-27778

## Chain of Custody

* Required Fields

TEMP: _____

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y☐ N☐ System No. *

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water
RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -67 | | 10/01/16 | 1111 | SB 11 - 5E - 00 | soil | | | X | |
| -68 | | | 1116 | SB 11 - 5E - 12 | soil | HOLD | | | |
| -69 | | | 1118 | SB 11 - 5E - 24 | soil | ↓ | | | |
| -70 | | | 1113 | SB 11 - 5W - 00 | soil | | | X | |
| -71 | | | 1116 | SB 11 - 5W - 12 | soil | HOLD | | | |
| -72 | | | 1118 | SB 11 - 5W - 24 | soil | ↓ | | | |
| -73 | | | 1120 | SB 11 - 10S - 00 | soil | HOLD | | | |
| -74 | | | 1124 | SB 11 - 10S - 12 | soil | ↓ | | | |
| -75 | | | 1133 | SB 11 - 10S - 24 | soil | | | | |
| -76 | | | 1123 | SB 11 - 5S - 00 | soil | | | X | |
| -77 | | ↓ | 1137 | SB 11 - 5S - 12 | soil | HOLD | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by: (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 9/9/16 | 0930 | K. Lin | E2MT |
| K Lin | E2MT | 10/3/16 | 1220 | | BC Labs |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: | |
| | | 10/3/16 | 1245 | Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

10-3-16 1630

10-3-16 16:30

SR-FL-0012-00 (Analytical)

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Environmental Testing Laboratory Since 1949

# BC LABORATORIES

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8/18

## Chain of Custody

16-27778

* Required Fields

TEMP: _____

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y☐ N☐ System No. *

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water
RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -78 | | 10/01/16 | 1144 | SB 15 - 10E - 00 | soil | HOLD | | | |
| -79 | | | 1145 | SB 15 - 10E - 12 | soil | | | | |
| -80 | | | 1147 | SB 15 - 10E - 24 | soil | | | | |
| -81 | | | 1200 | SB 15 - 10W - 00 | soil | | | | |
| -82 | | | 1157 | SB ~~15 - 10S~~ - 15-10S-00 | soil | | | | |
| -83 | | | 1159 | SB 15 - 10S - 12 | soil | | | | |
| -84 | | | 1202 | SB 15 - 10S - 24 | soil | | | | |
| -85 | | | 1150 | SB 15 - 5E - 00 | soil | | | X | |
| -86 | | | 1151 | SB 15 - 5E - 12 | soil | HOLD | | | |
| -87 | | | 1152 | SB 15 - 5E - 24 | soil | | | | |
| -88 | | V | 1211 | SB 15 - 5S - 00 | soil | | | X | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 10/3/16 | 0930 | K. Lin | E2MT |
| K. Lin | E2MT | 10/3/16 | 1220 | | BC Labs |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init. | |
| | | 10/3/16 | 2:48 | | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

10-3-16 1630 10-3-16 16:30

SR-FL-0012-00 (Analytical)

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9/14

16-277778 TEMP: _____

## Chain of Custody

* Required Fields

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y☐ N☐ System No. *

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -89 | | 10/01/16 | 1214 | SB 15 - 55 - 12 | soil | HOLD | | | |
| -90 | | | 1216 | SB 15 - 55 - 24 | soil | ↓ | | | |
| -91 | | | 1217 | SB 15 - 5W - 00 | soil | | | X | |
| -92 | | | 1224 | SB 15 - 5W - ~~24~~ 12 | soil | HOLD | | | |
| -93 | | | 1226 | SB 15 - 5W - 24 | soil | ↓ | | | |
| -94 | | | 1329 | SB 19 - 10E - 00 | soil | HOLD | | | |
| -95 | | | 1330 | SB 19 - 10E - 12 | soil | | | | |
| -96 | | | 1332 | SB 19 - 10E - 24 | soil | | | | |
| -97 | | | 1338 | SB 19 - 10S - 00 | soil | | | | |
| -98 | | | 1340 | SB 19 - 10S - 12 | soil | | | | |
| -99 | | ↓ | 1341 | SB 19 - 10S - 24 | soil | ↓ | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 10/1/16 | 0930 | K. Lin | E2MT |
| K. Lin | E2MT | 10/3/16 | 1220 | | BC Labs |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init. | |
| | | 10/3/16 | 2:45 | | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

10-3-16 1630

10-3-16 16:30

SR-FL-0012-00 (Analytical)

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**Chain of Custody and Cooler Receipt Form for 1627778 Page 10 of 20**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 11

Submission #: 16-27778

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: .95 Container: Glass Thermometer ID: 208 Date/Time 10-31-16

Temperature: (A) 2.7 °C / (C) 2.9 °C Analyst Init: 16:30

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: CAA Date/Time: 10/31/16 1230 Rev 21 05/23/2016

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**Chain of Custody and Cooler Receipt Form for 1627778 Page 11 of 20**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 11

Submission #: 16-27778

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: .95 Container: Glass Thermometer ID: 208 Date/Time 10-31-16

Temperature: (A) 2.7 °C / (C) 2.9 °C Analyst Init: 16:30

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:
Sample Numbering Completed By: CAA Date/Time: 10/5/16 1234 Rev 21 05/23/2016
I:\WPDocs\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 20

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**Chain of Custody and Cooler Receipt Form for 1627778 Page 12 of 20**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 Of 11

Submission #: 16-27778

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 95 Container: Glass Thermometer ID: 208 Date/Time 10-31-16

Temperature: (A) 2.7 °C / (C) 2.9 °C Analyst Init 1630

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: CDD Date/Time: 10/5/16 1230 Rev 21 05/23/2016

A = Actual / C = Corrected (S:\WPDocs\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 20)

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**Chain of Custody and Cooler Receipt Form for 1627778 Page 13 of 20**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 4 Of 11

Submission #: 16-27778

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐<br>BC Lab Field Service ☒ Other ☐ (Specify)_____ | Ice Chest ☒ None ☐ Box ☐<br>Other ☐ (Specify)_____ | YES ☐ NO ☐<br>W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 95 Container Glass Thermometer ID: 208 Date/Time 10.3.16

Temperature: (A) 2.1 °C / (C) 2.3 °C Analyst Init 16:30

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: AOO Date/Time: 10/5/16 1230

Rev 21 05/23/2016

**Chain of Custody and Cooler Receipt Form for 1627778 Page 14 of 20**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 5 Of 11

Submission #: 16-27778

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐<br>BC Lab Field Service ☒ Other ☐ (Specify)_____ | Ice Chest ☒ None ☐ Box ☐<br>Other ☐ (Specify)_____ | YES ☐ NO ☐<br>W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 95 Container Glass Thermometer ID: 208 Date/Time 10.3.16

Temperature: (A) 2.1 °C / (C) 2.3 °C Analyst Init 16:30

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | A | A | A | A | A | A | A | A | A | A |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: COA Date/Time: 10/5/16 1230

Rev 21 05/23/2016

**Chain of Custody and Cooler Receipt Form for 1627778 Page 15 of 20**

BC LABORATORIES INC. — COOLER RECEIPT FORM — Page 6 Of 11

Submission #: 16-27778

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐<br>BC Lab Field Service ☒ Other ☐ (Specify)_____ | Ice Chest ☒ None ☐ Box ☐<br>Other ☐ (Specify)_____ | YES ☐ NO ☐<br>W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 95 Container: Glass Thermometer ID: 208 Date/Time: 10.3.16

Temperature: (A) 2.1 °C / (C) 2.3 °C Analyst Init: 16:30

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 67 | 68 | 69 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:_____

Sample Numbering Completed By: CDA Date/Time: 10/5/16 1230

Rev 21 05/23/2016

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**Chain of Custody and Cooler Receipt Form for 1627778 Page 16 of 20**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 7 Of 11

Submission #: 16-27778

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: .95 Container: Glass Thermometer ID: 208 Date/Time 10-3-16

Temperature: (A) 2.7 °C / (C) 2.9 °C Analyst Init 16:30

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 31 | 32 | 33 | 34 | 35 | 36 | 64 | 65 | 66 | 70 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | A | A | A | A | A | A | A | A | A | A |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:_____
Sample Numbering Completed By: OOA Date/Time: 10/5/16 10/5/16 1230 Rev 21 05/23/2016
A = Actual / C = Corrected [S:\WPDocs\WordPerfect\LAB DOCS\FORMS\SAMREC rev 20]

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**Chain of Custody and Cooler Receipt Form for 1627778 Page 17 of 20**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 8 Of 11

Submission #: 16-27778

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: .95 Container: Glass Thermometer ID: 208 Date/Time: 10.3.16

Temperature: (A) 2.1 °C / (C) 2.3 °C Analyst Init: 16:30

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 73 | 74 | 75 | 78 | 79 | 80 | 81 | 82 | 83 | 84 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: COA Date/Time: 10/5/16 1230

A = Actual / C = Corrected

Rev 21 05/23/2016

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**Chain of Custody and Cooler Receipt Form for 1627778 Page 18 of 20**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 9 Of 11

Submission #: 16-27778

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ (Intact? Yes ☐ No ☐) Containers ☐ (Intact? Yes ☐ No ☐) None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: .95 Container: Glass Thermometer ID: 208 Date/Time: 10-31-16

Temperature: (A) 2.7 °C / (C) 2.9 °C Analyst Init: JD 16:30

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 71 | 72 | 76 | 77 | 88 | 89 | 90 | 8 | 9 | 10 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: AAA Date/Time: 10/5/16 1230 Rev 21 05/23/2016

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**Chain of Custody and Cooler Receipt Form for 1627778 Page 19 of 20**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 10 Of 11

Submission #: 16-27778

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐<br>BC Lab Field Service ☒ Other ☐ (Specify)_____ | Ice Chest ☒ None ☐ Box ☐<br>Other ☐ (Specify)_____ | YES ☐ NO ☐<br>W (S) |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 95 Container Glass Thermometer ID: 208 Date/Time 10.3.16

Temperature: (A) 2.1 °C / (C) 2.3 °C Analyst Init 16:30

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 85 | 86 | 87 | 91 | 92 | 93 | 7 | 8 | 9 | 10 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: CAA Date/Time: 10/5/16 1230 Rev 21 05/23/2016

I:\WPDocs\WordPerfect\LAB DOCS\FORMS\SAMREC rev 20

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**Chain of Custody and Cooler Receipt Form for 1627778 Page 20 of 20**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 11 Of 11

Submission #: 16-27778

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐<br>BC Lab Field Service ☒ Other ☐ (Specify)_____ | Ice Chest ☒ None ☐ Box ☐<br>Other ☐ (Specify)_____ | YES ☐ NO ☐<br>W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☐ No ☐ All samples containers intact? Yes ☐ No ☐ Description(s) match COC? Yes ☐ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 95 Container: Glass Thermometer ID: 208 Date/Time 10.3.16

Temperature: (A) 1.2 °C / (C) 1.4 °C Analyst Init 16:30

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 94 | 95 | 96 | 97 | 98 | 99 | 7 | 8 | 9 | 10 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: COA Date/Time: 10/5/16 1220 10/5/16

Rev 21 05/23/2016

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627778-01** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 07:36 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB37-10W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-02** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 07:39 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB37-10W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-03** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 07:41 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB37-10W-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-04** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 07:44 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB37-5W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-05** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 07:46 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB37-5W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-06** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 07:48 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB37-5W-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-07** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 07:48 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB37-5E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627778-08** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 07:53 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB37-5E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-09** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 07:56 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB37-5E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-10** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 07:36 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB37-10E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-11** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 07:40 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB37-10E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-12** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 07:42 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB37-10E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-13** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 07:46 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB37-5S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-14** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 07:50 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB37-5S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627778-15** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 07:55 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB37-5S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-16** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 08:23 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB2-5W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-17** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 08:25 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB2-5E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-18** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 08:28 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB2-5E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-19** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 08:16 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB2-10E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-20** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 08:18 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB2-10E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-21** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 08:22 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB2-10E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627778-22** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 08:15 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB2-10W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-23** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 08:19 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB2-10W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-24** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 08:21 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB2-10W-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-25** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 08:39 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB2-5N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-26** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 08:44 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB2-5N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-27** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 08:45 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB2-5N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-28** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 08:29 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB2-10N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627778-29** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 08:34 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB2-10N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-30** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 08:36 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB2-10N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-31** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 09:03 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB3-5S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-32** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 09:12 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB3-5S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-33** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 09:17 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB3-5S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-34** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 09:04 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB3-10S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-35** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 09:14 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB3-10S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627778-36** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 09:28 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB3-10S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-37** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 09:31 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB8-5S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-38** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 09:35 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB8-5S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-39** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 09:40 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB8-5S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-40** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 09:28 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB8-5N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-41** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 09:34 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB8-5N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-42** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 09:41 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB8-5N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627778-43** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 09:41 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB8-10S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-44** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 09:47 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB8-10S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-45** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 09:55 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB8-10S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-46** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 09:49 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB7-10E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-47** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 09:57 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB7-10E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-48** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 10:01 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB7-10E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-49** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 10:02 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB7-10W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627778-50** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 10:04 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB7-10W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-51** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 10:05 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB7-10W-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-52** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 10:06 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB7-5E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-53** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 10:10 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB7-5E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-54** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 10:13 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB7-5E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-55** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 10:06 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB7-5W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-56** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 10:13 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB7-5W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627778-57** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 10:17 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB7-5W-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-58** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 10:20 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB7-5S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-59** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 10:22 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB7-5S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-60** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 10:24 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB7-5S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-61** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 10:59 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB11-10E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-62** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:02 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB11-10E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-63** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:08 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB11-10E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627778-64** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:02 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB11-10W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-65** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:05 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB11-10W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-66** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:10 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB11-10W-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-67** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:11 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB11-5E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-68** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:16 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB11-5E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-69** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:18 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB11-5E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-70** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:13 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB11-5W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627778-71** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:16 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB11-5W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-72** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:18 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB11-5W-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-73** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:20 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB11-10S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-74** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:24 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB11-10S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-75** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:33 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB11-10S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-76** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:23 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB11-5S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-77** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:37 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB11-5S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627778-78** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:44 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB15-10E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-79** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:45 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB15-10E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-80** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:47 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB15-10E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-81** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 12:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB15-10W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-82** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:57 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB15-10S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-83** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:59 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB15-10S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-84** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 12:02 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB15-10S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627778-85** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:50 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB15-5E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-86** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:51 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB15-5E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-87** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:52 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB15-5E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-88** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 12:11 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB15-5S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-89** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 12:14 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB15-5S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-90** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 12:16 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB15-5S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-91** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 12:17 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB15-5W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627778-92** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 12:24 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB15-5W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-93** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 12:26 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB15-5W-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-94** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 13:29 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB19-10E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-95** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 13:30 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB19-10E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-96** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 13:32 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB19-10E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-97** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 13:38 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB19-10S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627778-98** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 13:40 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB19-10S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627778-99** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 13:41 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB19-10S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-04 | **Client Sample Name:** SB37-5W-00, 10/1/2016 7:44:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **3.8** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/07/16 | 10/12/16 17:28 | JCC | PE-OP3 | 1.905 | BZJ0692 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-07 | **Client Sample Name:** SB37-5E-00, 10/1/2016 7:48:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **6.7** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/07/16 | 10/11/16 17:19 | JCC | PE-OP3 | 0.926 | BZJ0692 |

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**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-13 | **Client Sample Name:** SB37-5S-00, 10/1/2016 7:46:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **16** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/07/16 | 10/12/16 17:29 | JCC | PE-OP3 | 4.950 | BZJ0692 |

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**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-14 | **Client Sample Name:** SB37-5S-12, 10/1/2016 7:50:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **36** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/18/16 | 11/21/16 11:28 | JCC | PE-OP3 | 5 | BZK1815 |

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**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-15 | **Client Sample Name:** SB37-5S-24, 10/1/2016 7:55:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **59** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/21/16 | 12/21/16 18:33 | JCC | PE-OP3 | 0.952 | BZL1781 |

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**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-16 | **Client Sample Name:** SB2-5W-00, 10/1/2016 8:23:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **3.3** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/07/16 | 10/12/16 17:31 | JCC | PE-OP3 | 1.887 | BZJ0692 |

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**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-17 | **Client Sample Name:** SB2-5E-00, 10/1/2016 8:25:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **6.1** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/07/16 | 10/12/16 17:32 | JCC | PE-OP3 | 1.980 | BZJ0692 |

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**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-25 | **Client Sample Name:** SB2-5N-00, 10/1/2016 8:39:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **8.7** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/07/16 | 10/12/16 17:34 | JCC | PE-OP3 | 1.887 | BZJ0692 |

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**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-31 | **Client Sample Name:** SB3-5S-00, 10/1/2016 9:03:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **66** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/18/16 | 11/21/16 10:42 | JCC | PE-OP3 | 0.917 | BZK1815 |

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**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-37 | **Client Sample Name:** SB8-5S-00, 10/1/2016 9:31:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **17** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/07/16 | 10/12/16 17:35 | JCC | PE-OP3 | 1.905 | BZJ0692 |

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**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-38 | **Client Sample Name:** SB8-5S-12, 10/1/2016 9:35:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **17** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/18/16 | 11/21/16 10:44 | JCC | PE-OP3 | 0.943 | BZK1815 |

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Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-40 | **Client Sample Name:** SB8-5N-00, 10/1/2016 9:28:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **16** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/07/16 | 10/12/16 17:37 | JCC | PE-OP3 | 1.961 | BZJ0692 |

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Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-41 | **Client Sample Name:** SB8-5N-12, 10/1/2016 9:34:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **16** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/18/16 | 11/21/16 11:12 | JCC | PE-OP3 | 0.990 | BZK1815 |

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**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-43 | **Client Sample Name:** SB8-10S-00, 10/1/2016 9:41:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **16** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/18/16 | 11/21/16 11:14 | JCC | PE-OP3 | 0.935 | BZK1815 |

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**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-49 | **Client Sample Name:** SB7-10W-00, 10/1/2016 10:02:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **13** | **mg/kg** | **5.0** | **0.56** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/30/16 | 01/03/17 13:30 | JCC | PE-OP3 | 1.887 | BZL2441 |

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**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-52 | **Client Sample Name:** SB7-5E-00, 10/1/2016 10:06:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **12** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **5.8** | **mg/kg** | **5.0** | **0.56** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/07/16 | 10/12/16 17:38 | JCC | PE-OP3 | 1.887 | BZJ0692 |

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**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-55 | **Client Sample Name:** SB7-5W-00, 10/1/2016 10:06:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **12** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **220** | **mg/kg** | **5.0** | **0.56** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/07/16 | 10/12/16 17:39 | JCC | PE-OP3 | 1.852 | BZJ0692 |

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**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-56 | **Client Sample Name:** SB7-5W-12, 10/1/2016 10:13:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.2** | **mg/kg** | **5.0** | **0.56** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/30/16 | 01/03/17 13:32 | JCC | PE-OP3 | 1.923 | BZL2441 |

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**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-58 | **Client Sample Name:** SB7-5S-00, 10/1/2016 10:20:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **9.3** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **250** | **mg/kg** | **5.0** | **0.56** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/07/16 | 10/12/16 17:47 | JCC | PE-OP3 | 1.942 | BZJ0692 |

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**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-59 | **Client Sample Name:** SB7-5S-12, 10/1/2016 10:22:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **110** | **mg/kg** | **5.0** | **0.56** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/30/16 | 01/03/17 13:34 | JCC | PE-OP3 | 1.942 | BZL2441 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-60 | **Client Sample Name:** SB7-5S-24, 10/1/2016 10:24:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **13** | **mg/kg** | **5.0** | **0.56** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 01/09/17 | 01/10/17 09:21 | JCC | PE-OP3 | 2 | B[A0495 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-61 | **Client Sample Name:** SB11-10E-00, 10/1/2016 10:59:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **10** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/18/16 | 11/21/16 11:54 | JCC | PE-OP3 | 0.980 | BZK1815 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-64 | **Client Sample Name:** SB11-10W-00, 10/1/2016 11:02:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **18** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/21/16 | 12/22/16 11:36 | JCC | PE-OP3 | 1.887 | BZL1781 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-65 | **Client Sample Name:** SB11-10W-12, 10/1/2016 11:05:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **15** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/30/16 | 01/03/17 13:35 | JCC | PE-OP3 | 4.950 | BZL2441 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-66 | **Client Sample Name:** SB11-10W-24, 10/1/2016 11:10:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **17** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 01/09/17 | 01/10/17 09:41 | JCC | PE-OP3 | 4.630 | B[A0495 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-67 | **Client Sample Name:** SB11-5E-00, 10/1/2016 11:11:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **25** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/07/16 | 10/12/16 17:48 | JCC | PE-OP3 | 4.808 | BZJ0692 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-68 | **Client Sample Name:** SB11-5E-12, 10/1/2016 11:16:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **19** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/18/16 | 11/21/16 11:56 | JCC | PE-OP3 | 0.962 | BZK1815 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-69 | **Client Sample Name:** SB11-5E-24, 10/1/2016 11:18:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **18** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/18/16 | 11/21/16 11:57 | JCC | PE-OP3 | 0.980 | BZK1815 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-70 | **Client Sample Name:** SB11-5W-00, 10/1/2016 11:13:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **11** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/07/16 | 10/12/16 17:50 | JCC | PE-OP3 | 5 | BZJ0692 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-71 | **Client Sample Name:** SB11-5W-12, 10/1/2016 11:16:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **20** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/18/16 | 11/21/16 11:58 | JCC | PE-OP3 | 0.962 | BZK1815 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-72 | **Client Sample Name:** SB11-5W-24, 10/1/2016 11:18:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **20** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/18/16 | 11/21/16 12:00 | JCC | PE-OP3 | 0.990 | BZK1815 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-73 | **Client Sample Name:** SB11-10S-00, 10/1/2016 11:20:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **11** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/21/16 | 12/22/16 11:38 | JCC | PE-OP3 | 1.869 | BZL1781 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-76 | **Client Sample Name:** SB11-5S-00, 10/1/2016 11:23:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **5.4** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/07/16 | 10/12/16 17:52 | JCC | PE-OP3 | 1.869 | BZJ0692 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-77 | **Client Sample Name:** SB11-5S-12, 10/1/2016 11:37:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **25** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/18/16 | 11/21/16 12:01 | JCC | PE-OP3 | 0.962 | BZK1815 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-81 | **Client Sample Name:** SB15-10W-00, 10/1/2016 12:00:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **13** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/18/16 | 11/21/16 12:03 | JCC | PE-OP3 | 0.926 | BZK1815 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-85 | **Client Sample Name:** SB15-5E-00, 10/1/2016 11:50:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **12** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/07/16 | 10/12/16 17:53 | JCC | PE-OP3 | 1.961 | BZJ0692 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-88 | **Client Sample Name:** SB15-5S-00, 10/1/2016 12:11:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **12** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/10/16 | 10/12/16 11:26 | JCC | PE-OP3 | 2 | BZJ0744 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-91 | **Client Sample Name:** SB15-5W-00, 10/1/2016 12:17:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **26** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/10/16 | 10/12/16 11:34 | JCC | PE-OP3 | 1.905 | BZJ0744 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-92 | **Client Sample Name:** SB15-5W-12, 10/1/2016 12:24:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **16** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/18/16 | 11/21/16 12:04 | JCC | PE-OP3 | 0.980 | BZK1815 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-93 | **Client Sample Name:** SB15-5W-24, 10/1/2016 12:26:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **12** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/21/16 | 12/22/16 11:39 | JCC | PE-OP3 | 1.923 | BZL1781 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-94 | **Client Sample Name:** SB19-10E-00, 10/1/2016 1:29:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **15** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/18/16 | 11/21/16 12:10 | JCC | PE-OP3 | 0.943 | BZK1815 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627778-95 | **Client Sample Name:** SB19-10E-12, 10/1/2016 1:30:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **11** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/21/16 | 12/22/16 11:41 | JCC | PE-OP3 | 1.942 | BZL1781 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: B[A0495** | | | | | | |
| Arsenic | B[A0495-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| Lead | B[A0495-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| **QC Batch ID: BZJ0692** | | | | | | |
| Arsenic | BZJ0692-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| Lead | BZJ0692-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| **QC Batch ID: BZJ0744** | | | | | | |
| Arsenic | BZJ0744-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| **QC Batch ID: BZK1815** | | | | | | |
| Arsenic | BZK1815-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| Lead | BZK1815-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| **QC Batch ID: BZL1781** | | | | | | |
| Arsenic | BZL1781-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| **QC Batch ID: BZL2441** | | | | | | |
| Arsenic | BZL2441-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| **Lead** | **BZL2441-BLK1** | **0.43713** | **mg/kg** | **2.5** | **0.28** | **J** |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: B[A0495** | | | | | | | | | | |
| Arsenic | B[A0495-BS1 | LCS | 9.3266 | 10.000 | mg/kg | 93.3 | | 75 - 125 | | |
| Lead | B[A0495-BS1 | LCS | 102.12 | 100.00 | mg/kg | 102 | | 75 - 125 | | |
| **QC Batch ID: BZJ0692** | | | | | | | | | | |
| Arsenic | BZJ0692-BS1 | LCS | 9.3750 | 10.000 | mg/kg | 93.7 | | 75 - 125 | | |
| Lead | BZJ0692-BS1 | LCS | 104.47 | 100.00 | mg/kg | 104 | | 75 - 125 | | |
| **QC Batch ID: BZJ0744** | | | | | | | | | | |
| Arsenic | BZJ0744-BS1 | LCS | 9.0063 | 10.000 | mg/kg | 90.1 | | 75 - 125 | | |
| **QC Batch ID: BZK1815** | | | | | | | | | | |
| Arsenic | BZK1815-BS1 | LCS | 9.4691 | 10.000 | mg/kg | 94.7 | | 75 - 125 | | |
| Lead | BZK1815-BS1 | LCS | 99.874 | 100.00 | mg/kg | 99.9 | | 75 - 125 | | |
| **QC Batch ID: BZL1781** | | | | | | | | | | |
| Arsenic | BZL1781-BS1 | LCS | 10.653 | 10.000 | mg/kg | 107 | | 75 - 125 | | |
| **QC Batch ID: BZL2441** | | | | | | | | | | |
| Arsenic | BZL2441-BS1 | LCS | 10.300 | 10.000 | mg/kg | 103 | | 75 - 125 | | |
| Lead | BZL2441-BS1 | LCS | 110.12 | 100.00 | mg/kg | 110 | | 75 - 125 | | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: B[A0495** | Used client sample: Y - Description: SB7-5S-24, 10/01/2016 10:24 | | | | | | | | | | |
| **Arsenic** | DUP | **1627778-60** | **24.958** | **26.455** | | **mg/kg** | **5.8** | | **20** | | |
| | MS | **1627778-60** | **24.958** | **28.469** | **10.000** | **mg/kg** | | **35.1** | | **75 - 125** | **Q03** |
| | MSD | **1627778-60** | **24.958** | **33.306** | **10.000** | **mg/kg** | **15.7** | **83.5** | **20** | **75 - 125** | |
| **Lead** | DUP | **1627778-60** | **12.708** | **7.8993** | | **mg/kg** | **46.7** | | **20** | | **Q01** |
| | MS | **1627778-60** | **12.708** | **97.448** | **100.00** | **mg/kg** | | **84.7** | | **75 - 125** | |
| | MSD | **1627778-60** | **12.708** | **102.30** | **100.00** | **mg/kg** | **4.9** | **89.6** | **20** | **75 - 125** | |
| **QC Batch ID: BZJ0692** | Used client sample: Y - Description: SB11-24, 08/03/2016 09:26 | | | | | | | | | | |
| **Arsenic** | DUP | **1621628-29** | **13.082** | **13.494** | | **mg/kg** | **3.1** | | **20** | | |
| | MS | **1621628-29** | **13.082** | **18.455** | **10.000** | **mg/kg** | | **53.7** | | **75 - 125** | **Q03** |
| | MSD | **1621628-29** | **13.082** | **18.267** | **10.000** | **mg/kg** | **1.0** | **51.9** | **20** | **75 - 125** | **Q03** |
| Lead | DUP | 1621628-29 | 3.5060 | 3.8157 | | mg/kg | 8.5 | | 20 | | J |
| | MS | 1621628-29 | 3.5060 | 94.332 | 100.00 | mg/kg | | 90.8 | | 75 - 125 | |
| | MSD | 1621628-29 | 3.5060 | 87.408 | 100.00 | mg/kg | 7.6 | 83.9 | 20 | 75 - 125 | |
| **QC Batch ID: BZJ0744** | Used client sample: Y - Description: SB15-5S-00, 10/01/2016 12:11 | | | | | | | | | | |
| **Arsenic** | DUP | **1627778-88** | **11.883** | **10.712** | | **mg/kg** | **10.4** | | **20** | | |
| | MS | **1627778-88** | **11.883** | **19.313** | **10.000** | **mg/kg** | | **74.3** | | **75 - 125** | **Q03** |
| | MSD | **1627778-88** | **11.883** | **19.654** | **10.000** | **mg/kg** | **1.8** | **77.7** | **20** | **75 - 125** | |
| **QC Batch ID: BZK1815** | Used client sample: Y - Description: SB37-5S-12, 10/01/2016 07:50 | | | | | | | | | | |
| Arsenic | DUP | 1627778-14 | 35.954 | 39.403 | | mg/kg | 9.2 | | 20 | | |
| | MS | 1627778-14 | 35.954 | 47.033 | 10.000 | mg/kg | | 111 | | 75 - 125 | |
| | MSD | 1627778-14 | 35.954 | 48.226 | 10.000 | mg/kg | 2.5 | 123 | 20 | 75 - 125 | |
| Lead | DUP | 1627778-14 | 2.8026 | 2.8378 | | mg/kg | 1.3 | | 20 | | J |
| | MS | 1627778-14 | 2.8026 | 86.142 | 100.00 | mg/kg | | 83.3 | | 75 - 125 | |
| | MSD | 1627778-14 | 2.8026 | 89.500 | 100.00 | mg/kg | 3.8 | 86.7 | 20 | 75 - 125 | |
| **QC Batch ID: BZL1781** | Used client sample: N | | | | | | | | | | |
| Arsenic | DUP | 1634749-01 | ND | ND | | mg/kg | | | 20 | | |
| | MS | 1634749-01 | ND | 10.360 | 10.000 | mg/kg | | 104 | | 75 - 125 | |
| | MSD | 1634749-01 | ND | 10.090 | 10.000 | mg/kg | 2.6 | 101 | 20 | 75 - 125 | |
| **QC Batch ID: BZL2441** | Used client sample: N | | | | | | | | | | |
| Arsenic | DUP | 1634958-17 | 7.5757 | 8.0043 | | mg/kg | 5.5 | | 20 | | |
| | MS | 1634958-17 | 7.5757 | 16.623 | 10.000 | mg/kg | | 90.5 | | 75 - 125 | |
| | MSD | 1634958-17 | 7.5757 | 17.485 | 10.000 | mg/kg | 5.1 | 99.1 | 20 | 75 - 125 | |
| Lead | DUP | 1634958-17 | 50.586 | 57.202 | | mg/kg | 12.3 | | 20 | | |
| | MS | 1634958-17 | 50.586 | 132.86 | 100.00 | mg/kg | | 82.3 | | 75 - 125 | |
| | MSD | 1634958-17 | 50.586 | 130.31 | 100.00 | mg/kg | 1.9 | 79.7 | 20 | 75 - 125 | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 01/10/2017 16:07
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

## Notes And Definitions

| | |
|---|---|
| J | Estimated Value (CLP Flag) |
| MDL | Method Detection Limit |
| ND | Analyte Not Detected |
| PQL | Practical Quantitation Limit |
| A07 | Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference. |
| Q01 | Sample precision is not within the control limits. |
| Q03 | Matrix spike recovery(s) is(are) not within the control limits. |

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Date of Report: 12/23/2016

Travis Stravasnik

E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

| | |
|---|---|
| Client Project: | [none] |
| BCL Project: | LAUSD - San Pedro HS |
| BCL Work Order: | 1627779 |
| Invoice ID: | B249083, B249669, B252467, B255131 |

Enclosed are the results of analyses for samples received by the laboratory on 10/3/2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature



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# BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

16-27779

10/18

## Chain of Custody

* Required Fields

TEMP: _____

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

| Project Information: | PO # |
|---|---|
| LAUSD-San Pedro High School | BCL Quote # |

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y☐ N☐ System No. *

| Sampler Name Printed / Signature | QC Request | Result Request ** Surcharge |
|---|---|---|
| G. Valenzuela/K. Lin/A.Mitoma | ☑ STD ☐ Level II | ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day** |

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| | -1 | ~~9/15~~ 10/1/16 | 1345 | SB19-SW-00 | soil | | | X | |
| | -2 | 9/15/16 | 1333 | SB19-SE-00 | soil | | | X | |
| | -3 | 9/15/16 | 1335 | SB19-SE-12 | soil | HOLD | | | |
| | -4 | 9/15/16 | 1337 | SB19-SE-24 | soil | ↓ | | | |
| | -5 | 9/15/16 | 1343 | SB19-SS-00 | soil | | | X | |
| | -6 | 9/15/16 | 1328 | SB19-IOW-00 | soil | HOLD | | | |
| | -7 | 9/15/16 | 1329 | SB19-IOW-12 | soil | ↓ | | | |
| | -8 | 9/15/16 | 1405 | SB17-IOW-00 | soil | | | | |
| | -9 | 9/15/16 | 1406 | SB17-IOW-12 | soil | | | | |
| | -10 | 9/15/16 | 1409 | SB17-IOW-24 | soil | | | | |
| | -11 | 9/15/16 | 1356 | SB17-IOE-00 | soil | | | | |

CHK BY DISTRIBUTION WAYNE SUB-OUT

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 10/1/16 | 0930 | K. Lin | E2MT |
| K. Lin | E2MT | 10/3/16 | 1220 | | BC Labs |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: | |
| | | 10/3/16 | 2:48 | Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

10-3-16 1631

10-3-16 16:30

SR-FL-0012-00 (Analytical)

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# BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

11/18

16-27779 TEMP: _____

## Chain of Custody

* Required Fields

ANALYSIS REQUESTED

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Project Information: LAUSD-San Pedro High School | PO # | BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y☐ N☐ System No. *

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| | -12 | ~~9/16~~ 10/4/16 | 1356 | SB17 10E - 12 | soil | HOLD | | | |
| | -13 | 9/ /16 | 1400 | SB17 10E - 24 | soil | | | | |
| | -14 | 9/ /16 | 1406 | SB17 10N - 00 | soil | | | | |
| | -15 | 9/ /16 | 1407 | SB17 10N - 12 | soil | | | | |
| | -16 | 9/ /16 | 1409 | SB17 10N - 24 | soil | | | | |
| | -17 | 9/ /16 | 1412 | SB17 5W 00 | soil | HOLD | | | |
| | -18 | 9/ /16 | 1414 | SB17 5W 12 | soil | | | | |
| | -19 | 9/ /16 | 1416 | SB17 5W - 24 | soil | | | | |
| | -20 | 9/ /16 | 1401 | SB17 5E - 00 | soil | | | | |
| | -21 | 9/ /16 | 1403 | SB17 5E - 12 | soil | | | | |
| | -22 | 9/ /16 | 1404 | SB17 5E - 24 | soil | | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by: (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 10/3/16 | 0930 | K. Lin | E2MT |
| K. Lin | E2MT | 10/3/16 | 1220 | | BC Labs |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init. | |
| | | 10/3/16 | 1625 | | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

10-3-16 1630 10-3-16 16:30

SR-FL-0012-00 (Analytical)

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# BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

12/18

16-27779

## Chain of Custody

* Required Fields

TEMP: _____

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Carbon Copies:** CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

**Regulatory Compliance** Electronic Data Transfer: Y ☐ N ☐ System No. *

ANALYSIS REQUESTED

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| | -23 | 10/1/16 | 1411 | SB 17 - 5N - 00 | soil | HOLD | | | |
| | -24 | ↓ | 1413 | SB 17 - 5N - 12 | soil | ↓ | | | |
| | -25 | ↓ | 1415 | SB 17 - 5N - 24 | soil | | | | |
| | | | | SB - - | soil | | | | |
| | | | | SB - - | soil | | | | |
| | | | | SB - - | soil | | | | |
| | | | | SB - - | soil | | | | |
| | | | | SB - - | soil | | | | |
| | | | | SB - - | soil | | | | |
| | | | | SB - - | soil | | | | |
| | | | | SB - - | soil | | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 10/3/16 | 0930 | K. Lin | E2MT |
| K. Lin | E2MT | 10/3/16 | 1220 | | BC Labs |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: | |
| | | 10/3/16 | 248 | Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

10-3-16 1630

10-3-16 16:30

SR-FL-0012-00 (Analytical)

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# BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

13/18

16-27779 TEMP: _____

## Chain of Custody

* Required Fields

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |

E-mail: gabriela.valenzuela@e2mt.com

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Project Information: LAUSD-San Pedro High School | PO # | BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y☐ N☐ System No. *

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| | -26 | 10/01/16 | 1500 | SB DUP1A-100116 | soil | | | X | |
| | -27 | | 1500 | SB DUP1B-100116 | soil | HOLD | | | |
| | -28 | | 1500 | SB DUP1C-100116 | soil | ↓ | | | |
| | -29 | | 1600 | SB DUP2A-100116 | soil | | | X | |
| | -30 | | 1600 | SB DUP2B-100116 | soil | HOLD | | | |
| | -31 | | 1600 | SB DUP2C-100116 | soil | ↓ | | | |
| | -32 | | 1700 | SB DUP3A-100116 | soil | | | X | |
| | -33 | | 1700 | SB DUP3B-100116 | soil | HOLD | | | |
| | -34 | | 1700 | SB DUP3C-100116 | soil | ↓ | | | |
| | | | | SB | soil | | | | |
| | | | | SB | soil | | | | |

| | Company | Date | Time | | Company |
|---|---|---|---|---|---|
| Relinquished by: (Signature and Printed Name) G. Valenzuela | E2Managetech | 10/1/16 | 0930 | Received by (Signature and Print Name) K. Lin | E2MT |
| Relinquished by: (Signature and Printed Name) K Lin | E2MT | 10/3/16 | 1220 | Received by (Signature and Print Name) | BC Labs |
| Received for Lab by: (Signature and Printed Name) | | 10/3/16 | 2468 | Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

10-3-16 1630 10-3-16 16:30

SR-FL-0012-00 (Analytical)

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BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

# BC LABORATORIES

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14 / 18

## Chain of Custody

16-27779

TEMP: _____

* Required Fields

ANALYSIS REQUESTED

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

**Carbon Copies:** CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

| Project Information: | PO # |
|---|---|
| LAUSD-San Pedro High School | BCL Quote # |

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

**Regulatory Compliance** Electronic Data Transfer: Y ☐ N ☐ System No. *

| Sampler Name Printed / Signature | QC Request | Result Request ** Surcharge |
|---|---|---|
| G. Valenzuela/K. Lin/A.Mitoma | ☑ STD ☐ Level II | ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day** |

**Matrix Types:** RSW = Raw Surface Water; RGW = Raw Ground Water; CFW = Clorinated Finished Water; FW = Finished Water; CWW = Chorinated Waste Water; WW = Waste Water; BW = Bottled Water; SW = Storm Water; DW = Drinking Water; SO = Solid

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| | -35 | 10/02/16 | 0736 | SB 18 - SN - 00 | soil | | | X | |
| | -36 | | 0737 | SB 18 - SN - 12 | soil | HOLD | | | |
| | -37 | | 0739 | SB 18 - SN - 24 | soil | | | | |
| | -38 | | 0741 | SB 18 - 10S - 00 | soil | | | | |
| | -39 | | 0743 | SB 18 - 10S - 12 | soil | | | | |
| | -40 | | 0744 | SB 18 - 10S - 24 | soil | | | | |
| | -41 | | 0742 | SB 18 - 5E - 00 | soil | | | X | |
| | -42 | | 0745 | SB 18 - 5E - 12 | soil | HOLD | | | |
| | -43 | | 0747 | SB 18 - 5E - 24 | soil | | | | |
| | -44 | | 0749 | SB 18 - 5S - 00 | soil | | | X | |
| | -45 | ↓ | 0751 | SB 18 - 5S - 12 | soil | HOLD | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by: (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 10/3/16 | 0930 | K. Lin | E2MT |
| K. Lin | E2MT | 10/3/16 | 1220 | | BC (cals) |
| Received for Lab by: (Signature and Printed Name) | | 10/3/16 | 2:45 | Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

10-3-16 1630

10.3-16 16:30

SR-FL-0012-00 (Analytical)

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13/18

16-27779

## Chain of Custody

* Required Fields

TEMP: _____

| Client/Company Name *: | Report Attention *: | Phone * #: / FAX * #: |
|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 |
| | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Project Information: LAUSD-San Pedro High School

PO # / BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y ☐ N ☐ System No. *

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| | -46 | 10/02/16 | 0752 | SB 18 - 5S - 24 | soil | HOLD | | | |
| | -47 | | 0748 | SB 18 - 10N - 00 | soil | ↓ | | | |
| | -48 | | 0749 | SB 14 - 10N - 12 | soil | | | | |
| | -49 | | 0750 | SB 14 - 10N - 24 | soil | | | | |
| | -50 | | 0752 | SB 14 - 5N - 00 | soil | | | X | |
| | -51 | | 0754 | SB 14 - 5N - 12 | soil | HOLD | | | |
| | -52 | | 0756 | SB 14 - 5N - 24 | soil | ↓ | | | |
| | -53 | | 0758 | SB 14 - 5E - 00 | soil | | | X | |
| | -54 | | 0759 | SB 14 - 5E - 12 | soil | HOLD | | | |
| | -55 | | 0801 | SB 14 - 5E - 24 | soil | ↓ | | | |
| | -56 | ↓ | 0755 | SB 14 - 10S - 00 | soil | ↓ | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by: (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 10/3/16 | 0930 | K. Lin | E2MT |
| K. Lin | E2MT | 10/3/16 ~~10/3/16~~ | 1220 | | BC Labs |
| Received for Lab by: (Signature and Printed Name) | | Date 10/3/16 | Time 2:48 | Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

10-3-16 1630 10-3-16 16:30

SR-FL-0012-00 (Analytical)

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# BC LABORATORIES

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10/18

16-27779

TEMP: _____

## Chain of Custody

* Required Fields

| Client/Company Name *: | Report Attention *: | Phone * #: / FAX * #: |
|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 |

E-mail: gabriela.valenzuela@e2mt.com

Address * 5001 Airport Plaza Dr; Suite 260 | City * Long Beach | State * CA | Zip * 90715

Project Information: LAUSD-San Pedro High School | PO # | BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Regulatory Compliance: Electronic Data Transfer: Y ☐ N ☐ System No. *

**Matrix Types:** RSW = Raw Surface Water; RGW = Raw Ground Water; CFW = Clorinated Finished Water; FW = Finished Water; CWW = Chorinated Waste Water; WW = Waste Water; BW = Bottled Water; SW = Storm Water; DW = Drinking Water; SO = Solid

ANALYSIS REQUESTED

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| | -57 | 10/02/16 | 0757 | SB 14-10S-12 | soil | HOLD | | | |
| | -58 | | 0758 | SB 14-10S-24 | soil | ↓ | | | |
| | -59 | | 0804 | SB 14-5S-00 | soil | | | X | |
| | -60 | | 0806 | SB 14-5S-12 | soil | | | | |
| | -61 | | 0808 | SB 14-5S-24 | soil | HOLD ↓ | | | |
| | -62 | | 1500 | SB UP4A-100216 | soil | | | X | |
| | -63 | | 1500 | SB UP4B-100216 | soil | HOLD | | | |
| | -64 | | 1500 | SB UP4C-100216 | soil | ↓ | | | |
| | -65 | | 0843 | SB9-SW-00 | soil | | | X | |
| | -66 | | 0849 | SB9-SW-12 | soil | HOLD | | | |
| | -67 | ↓ | 0854 | SB9-SW-24 | soil | ↓ | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 10/3/16 | 0930 | K Lin | E2MT |
| K Lin | E2MT | 10/3/16 | 1230 | | BC Labs |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init. | |
| | | 10/3/16 | 2:45 | | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

10-3-16 1630

10-3-16 16:30

SR-FL-0012-00 (Analytical)

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# BC LABORATORIES

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17/18

16-27779

## Chain of Custody

* Required Fields

TEMP: _____

| Client/Company Name *: | Report Attention *: | Phone * #: / FAX * #: |
|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 / E-mail: gabriela.valenzuela@e2mt.com |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Project Information: LAUSD-San Pedro High School

PO #

BCL Quote #

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: G. Valenzuela/K. Lin/A.Mitoma

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

**Carbon Copies:** CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

**Regulatory Compliance** Electronic Data Transfer: Y ☐ N ☐ System No. *

ANALYSIS REQUESTED

**Matrix Types:** RSW = Raw Surface Water; RGW = Raw Ground Water; CFW = Clorinated Finished Water; FW = Finished Water; CWW = Chorinated Waste Water; WW = Waste Water; BW = Bottled Water; SW = Storm Water; DW = Drinking Water; SO = Solid

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -68 | -01 | 10/02/16 | 0838 | SB 9 - SN - 00 | soil | | | X | |
| -69 | -02 | | 0840 | SB 9 - SN - 12 | soil | HOLD | | | |
| -70 | -03 | | 0842 | SB 9 - SN - 24 | soil | ↓ | | | |
| -71 | -04 | | 0847 | SB 9 - 10E - 00 | soil | | | | |
| -72 | -05 | | 0849 | SB 9 - 10E - 12 | soil | | | | |
| -73 | -06 | | 0851 | SB 9 - 10E - 24 | soil | ↓ | | | |
| -74 | -07 | | 0858 | SB 9 - 5E - 00 | soil | | | X | |
| -75 | -08 | | 0859 | SB 9 - 5E - 12 | soil | HOLD | | | |
| -76 | -09 | | 0900 | SB 9 - 5E - 24 | soil | ↓ | | | |
| -77 | -10 | | 0949 | SB 47 - SW - 00 | soil | | | X | |
| -78 | -11 | ↓ | 0952 | SB 47 - SW - 12 | soil | HOLD | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by: (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 10/3/16 | 0930 | K. Lin | E2MT |
| K. Lin | E2MT | 10/3/16 | 1220 | | BC Labs. |
| Received for Lab by: (Signature and Printed Name) | | Date 10/3/16 | Time 245 | Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init. | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

10-3-16 1630 10-3-16 16:30

SR-FL-0012-00 (Analytical)

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16-27779

10/18

## Chain of Custody

TEMP: _____

* Required Fields

| Client/Company Name *: | Report Attention *: | Phone * #: | FAX * #: |
|---|---|---|---|
| E2Managetech | T. Stravasnik/G. Valenzuela | 562-353-4855 | |
| | | E-mail: gabriela.valenzuela@e2mt.com | |

| Address * | City * | State * | Zip * |
|---|---|---|---|
| 5001 Airport Plaza Dr; Suite 260 | Long Beach | CA | 90715 |

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

| Project Information: | PO # |
|---|---|
| LAUSD-San Pedro High School | BCL Quote # |

How would you like your completed results sent? ☐ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y☐ N☐ System No. *

| Sampler Name Printed / Signature | QC Request | Result Request ** Surcharge |
|---|---|---|
| G. Valenzuela/K. Lin/A.Mitoma | ☑STD ☐ Level II | ☑STD ☐5 Day** ☐2 Day** ☐1 Day** |

**Matrix Types:** RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

| Sample # | # Bottles | Sampled Date | Sampled Time | Sample Description / Location * | Matrix * | Comments / Station Code | Lead (EPA 6010) | Arsenic (EPA 6010) | OCPs |
|---|---|---|---|---|---|---|---|---|---|
| -79 | -12 | 10/02/16 | 0951 | SB 47-5S-00 | soil | | | X | |
| -80 | -13 | | 0954 | SB 47-5S-12 | soil | HOLD | | | |
| -81 | -14 | | 0948 | SB 47-5E-00 | soil | | | X | |
| -82 | -15 | | 0950 | SB 47-5E-02 | soil | HOLD | | | |
| -83 | -16 | | 1600 | SB DUP5A-100216 | soil | | | X | |
| -84 | -17 | | 1600 | SB DUP5B-100216 | soil | HOLD | | | |
| -85 | -18A (10/5/16) | | 0950 | SB 47-5S-04 | soil | ↓ | | | |
| | | | | SB - - | soil | | | | |
| | | | | SB - - | soil | | | | |
| | | | | SB - - | soil | | | | |
| | | | | SB - - | soil | | | | |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by (Signature and Print Name) | Company |
|---|---|---|---|---|---|
| G. Valenzuela | E2Managetech | 10/3/16 | 0930 | K. Lin | E2MT |
| K. Lin | E2MT | 10/3/16 | 1330 | | BC Labs |
| Received for Lab by: (Signature and Printed Name) | | Date | Time | Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init. | |
| | | 10/3/16 | 24 | | |

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

10-3-16 1630 10.3.16 16:30

SR-FL-0012-00 (Analytical)

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**Chain of Custody and Cooler Receipt Form for 1627779 Page 10 of 20**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 11

Submission #: 16-27779

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / (S) |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 95 Container: Cglass Thermometer ID: 208 Date/Time 10-3-16

Temperature: (A) 1.2 °C / (C) 1.4 °C Analyst Init 16:30

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: CDA Date/Time: 10/5/16 1230

A = Actual / C = Corrected

Rev 21 05/23/2016

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**Chain of Custody and Cooler Receipt Form for 1627779 Page 11 of 20**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 11

Submission #: 16-27779

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 95 Container: Glass Thermometer ID: 208 Date/Time 10-3-16

Temperature: (A) 1.2 °C / (C) 1.4 °C Analyst Init 16:30

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 20 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| ~~8oz~~ / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: CDT Date/Time: 10/5/16 1230 Rev 21 05/23/2016

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**Chain of Custody and Cooler Receipt Form for 1627779 Page 12 of 20**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 Of 11

Submission #: 16-27779

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W (S) |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 95 Container: Glass Thermometer ID: 208 Date/Time 10-3-16

Temperature: (A) 1.2 °C / (C) 1.4 °C Analyst Init 16:30

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 2 1 | 2 2 | 2 3 | 2 4 | 2 5 | 6 | 7 | 8 | 9 | 10 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: CAA Date/Time: 10/5/16 1230

A = Actual / C = Corrected

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**Chain of Custody and Cooler Receipt Form for 1627779 Page 13 of 20**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 4 Of 11

Submission #: 16-27779

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: .95 Container: Glass Thermometer ID: 208 Date/Time 10-31-16

Temperature: (A) 2.7 °C / (C) 2.9 °C Analyst Init: 16:30

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 26 | 27 | 28 | 32 | 33 | 34 | 86 | 8 | 9 | 10 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments: Received an extra sample not listed on COC SB-11-55-24 @ 1148 on 10/1/16 placed as 86

Sample Numbering Completed By: CAA Date/Time: 10/5/16 1230

A = Actual / C = Corrected

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**Chain of Custody and Cooler Receipt Form for 1627779 Page 14 of 20**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 5 Of 11

Submission #: 16-27779

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 95 Container Glass Thermometer ID: 208

Temperature: (A) 2.1 °C / (C) 2.3 °C

Date/Time 10.3.16

Analyst Init 16:30

| SAMPLE CONTAINERS | SAMPLE NUMBERS 29 | 30 | 31 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: CRA Date/Time: 10/5/16 1230

A = Actual / C = Corrected

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**Chain of Custody and Cooler Receipt Form for 1627779 Page 15 of 20**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 6 Of 11

Submission #: 16-27779

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
W S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: .99 Container: Glass Thermometer ID: 208 Date/Time 16.3.16

Temperature: (A) 2.0 °C / (C) 2.2 °C Analyst Init 16:30

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:
Sample Numbering Completed By: OOA Date/Time: 10/5/16 1230 Rev 21 05/23/2016
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**Chain of Custody and Cooler Receipt Form for 1627779 Page 16 of 20**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 7 Of 11

Submission #: 16-27779

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☑ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☑ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: .97 Container: Glass Thermometer ID: 208 Date/Time 10.3.16

Temperature: (A) 2.0 °C / (C) 2.2 °C Analyst Init 16:30

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: ODA Date/Time: 10/5/16 1230

A = Actual / C = Corrected

Rev 21 05/23/2016

[S:\WPDocs\WordPerfect\LAB DOCS\FORMS\SAMREC rev 20]

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**Chain of Custody and Cooler Receipt Form for 1627779 Page 17 of 20**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 8 Of 11

Submission #: 16-27779

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☑ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☑ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: .97 Container: Glass Thermometer ID: 208 Date/Time 10.3.16

Temperature: (A) 2.0 °C / (C) 2.2 °C Analyst Init 16:30

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | A | A | A | A | A | A | A | A | A | A |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:_____

Sample Numbering Completed By: CBA Date/Time: 10/5/16 1230 Rev 21 05/23/2016

A = Actual / C = Corrected (S:\AWPDocs\WordPerfect\LAB_DOCS\FORMS\SAMREC.rev 20)

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**Chain of Custody and Cooler Receipt Form for 1627779 Page 18 of 20**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 9 Of 11

Submission #: 16-27779

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☑ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☑ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: .97 Container: Glass Thermometer ID: 208 Date/Time 10.3.16

Temperature: (A) 2.0 °C / (C) 2.2 °C Analyst Init 16:30

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: CoA Date/Time: 10/5/16 1230

A = Actual / C = Corrected

Rev 21 05/23/2016

**Chain of Custody and Cooler Receipt Form for 1627779 Page 19 of 20**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 10 Of 11

Submission #: 16-27779

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☑ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☑ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W S |

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: .97 Container: Glass Thermometer ID: 208 Date/Time 10.3.16

Temperature: (A) 2.0 °C / (C) 2.2 °C Analyst Init 16:30

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:_____

Sample Numbering Completed By: COA Date/Time: 1230 10/5/16 Rev 21 05/23/2016

A = Actual / C = Corrected (S:\WPDocs\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 20)

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**Chain of Custody and Cooler Receipt Form for 1627779 Page 20 of 20**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 11 Of 11

Submission #: 16-27779

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: .97 Container: Glass Thermometer ID: 208 Date/Time 10.3.16

Temperature: (A) 2.0 °C / (C) 2.2 °C Analyst Init 16:30

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:_____

Sample Numbering Completed By: CDA Date/Time: 10/5/16 1230

A = Actual / C = Corrected

Rev 21 05/23/2016

E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627779-01** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 13:45 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB19-5W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-02** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 13:33 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB19-5E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-03** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 13:35 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB19-5E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-04** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 13:37 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB19-5E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-05** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 13:43 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB19-5S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-06** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 13:28 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB19-10W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-07** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 13:29 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB19-10W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627779-08** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 14:05 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB17-10W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-09** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 14:06 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB17-10W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-10** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 14:09 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB17-10W-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-11** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 13:56 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB17-10E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-12** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 13:58 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB17-10E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-13** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 14:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB17-10E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-14** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 14:06 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB17-10N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627779-15** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 14:07 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB17-10N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-16** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 14:09 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB17-10N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-17** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 14:12 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB17-5W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-18** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 14:14 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB17-5W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-19** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 14:18 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB17-5W-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-20** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 14:01 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB17-5E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-21** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 14:03 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB17-5E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627779-22** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 14:04 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB17-5E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-23** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 14:11 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB17-5N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-24** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 14:13 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB17-5N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-25** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 14:15 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB17-5N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-26** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 15:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP1A-100116 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-27** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 15:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP1B-100116 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-28** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 15:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP1C-100116 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627779-29** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 16:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP2A-100116 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-30** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 16:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP2B-100116 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-31** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 16:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP2C-100116 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-32** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 17:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP3A-100116 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-33** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 17:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP3B-100116 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-34** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 17:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP3C-100116 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-35** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 07:36 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB18-5N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627779-36** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 07:37 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB18-5N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-37** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 07:39 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB18-5N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-38** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 07:41 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB18-10S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-39** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 07:43 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB18-10S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-40** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 07:44 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB18-10S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-41** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 07:42 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB18-5E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-42** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 07:45 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB18-5E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627779-43** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 07:47 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB18-5E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-44** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 07:49 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB18-5S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-45** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 07:51 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB18-5S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-46** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 07:52 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB18-5S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-47** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 07:48 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB14-10N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-48** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 07:49 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB14-10N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-49** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 07:50 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB14-10N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627779-50** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 07:52 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB14-5N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-51** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 07:54 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB14-5N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-52** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 07:56 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB14-5N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-53** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 07:58 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB14-5E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-54** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 07:59 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB14-5E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-55** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 08:01 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB14-5E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-56** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 07:55 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB14-10S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627779-57** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 07:57 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB14-10S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-58** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 07:58 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB14-10S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-59** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 08:04 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB14-5S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-60** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 08:06 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB14-5S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-61** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 08:08 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB14-5S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-62** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 15:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP4A-100216 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-63** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 15:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP4B-100216 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627779-64** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 15:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP4C-100216 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-65** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 08:43 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB9-5W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-66** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 08:49 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB9-5W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-67** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 08:54 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB9-5W-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-68** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 08:38 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB9-5N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-69** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 08:40 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB9-5N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-70** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 08:42 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB9-5N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627779-71** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 08:47 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB9-10E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-72** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 08:49 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB9-10E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-73** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 08:51 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB9-10E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-74** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 08:58 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB9-5E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-75** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 08:59 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB9-5E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-76** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 09:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB9-5E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-77** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 09:49 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB47-5W-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627779-78** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 09:52 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB47-5W-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-79** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 09:51 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB47-5S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-80** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 09:54 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB47-5S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-81** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 09:48 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB47-5E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-82** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 09:50 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB47-5E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-83** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 16:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP5A-100216 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-84** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 16:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | DUP5B-100216 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1627779-85** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/02/2016 09:58 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB47-5S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1627779-86** | **COC Number:** | --- | **Receive Date:** | 10/03/2016 16:30 |
| | **Project Number:** | --- | **Sampling Date:** | 10/01/2016 11:48 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB11-5S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-01 | **Client Sample Name:** SB19-5W-00, 10/1/2016 1:45:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **12** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |
| **Lead** | **22** | **mg/kg** | **5.0** | **0.56** | **EPA-6010B** | 1000 | **A07** | 2 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/19/16 | 10/20/16 11:15 | JCC | PE-OP3 | 1 | BZJ1818 |
| 2 | EPA-6010B | 10/10/16 | 10/12/16 11:37 | JCC | PE-OP3 | 1.980 | BZJ0744 |

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5001 Airport Plaza Drive, Suite 260
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**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-02 | **Client Sample Name:** SB19-5E-00, 10/1/2016 1:33:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **14** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/10/16 | 10/12/16 12:06 | JCC | PE-OP3 | 1.905 | BZJ0744 |

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**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-03 | **Client Sample Name:** SB19-5E-12, 10/1/2016 1:35:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **12** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/17/16 | 11/18/16 15:23 | JCC | PE-OP3 | 1.942 | BZK1737 |

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**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-05 | **Client Sample Name:** SB19-5S-00, 10/1/2016 1:43:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | mg/kg | 2.0 | 0.80 | EPA-6010B | 500 | A07 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/10/16 | 10/12/16 11:38 | JCC | PE-OP3 | 1.887 | BZJ0744 |

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**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-17 | **Client Sample Name:** SB17-5W-00, 10/1/2016 2:12:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **40** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/17/16 | 11/18/16 12:49 | JCC | PE-OP3 | 0.980 | BZK1737 |

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**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-20 | **Client Sample Name:** SB17-5E-00, 10/1/2016 2:01:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **5.6** | **mg/kg** | **5.0** | **0.56** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/17/16 | 11/18/16 15:24 | JCC | PE-OP3 | 1.818 | BZK1737 |

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**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-23 | **Client Sample Name:** SB17-5N-00, 10/1/2016 2:11:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **17** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/17/16 | 11/18/16 13:14 | JCC | PE-OP3 | 0.990 | BZK1737 |

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Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-26 | **Client Sample Name:** DUP1A-100116, 10/1/2016 3:00:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **2.5** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/10/16 | 10/12/16 12:07 | JCC | PE-OP3 | 1.887 | BZJ0744 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-29 | **Client Sample Name:** DUP2A-100116, 10/1/2016 4:00:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **13** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/10/16 | 10/12/16 11:40 | JCC | PE-OP3 | 1.869 | BZJ0744 |

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Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-32 | **Client Sample Name:** DUP3A-100116, 10/1/2016 5:00:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **11** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/10/16 | 10/12/16 11:45 | JCC | PE-OP3 | 4.630 | BZJ0744 |

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E2 Managetech
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Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-35 | **Client Sample Name:** SB18-5N-00, 10/2/2016 7:36:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **9.9** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/10/16 | 10/12/16 11:47 | JCC | PE-OP3 | 1.942 | BZJ0744 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-41 | **Client Sample Name:** SB18-5E-00, 10/2/2016 7:42:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **18** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/10/16 | 10/12/16 11:48 | JCC | PE-OP3 | 1.961 | BZJ0744 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-42 | **Client Sample Name:** SB18-5E-12, 10/2/2016 7:45:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **6.3** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/17/16 | 11/18/16 13:15 | JCC | PE-OP3 | 0.980 | BZK1737 |

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Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-44 | **Client Sample Name:** SB18-5S-00, 10/2/2016 7:49:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **7.7** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/10/16 | 10/12/16 12:09 | JCC | PE-OP3 | 1.905 | BZJ0744 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-50 | **Client Sample Name:** SB14-5N-00, 10/2/2016 7:52:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **12** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/10/16 | 10/12/16 11:50 | JCC | PE-OP3 | 1.923 | BZJ0744 |

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Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-53 | **Client Sample Name:** SB14-5E-00, 10/2/2016 7:58:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **12** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/10/16 | 10/12/16 11:51 | JCC | PE-OP3 | 1.852 | BZJ0744 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-59 | **Client Sample Name:** SB14-5S-00, 10/2/2016 8:04:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **11** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/10/16 | 10/12/16 11:53 | JCC | PE-OP3 | 1.923 | BZJ0744 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-62 | **Client Sample Name:** DUP4A-100216, 10/2/2016 3:00:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **11** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/10/16 | 10/12/16 11:54 | JCC | PE-OP3 | 1.942 | BZJ0744 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-65 | **Client Sample Name:** SB9-5W-00, 10/2/2016 8:43:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **7.5** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **44** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 2 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/10/16 | 10/12/16 11:55 | JCC | PE-OP3 | 1.869 | BZJ0744 |
| 2 | EPA-6010B | 11/17/16 | 11/18/16 13:17 | JCC | PE-OP3 | 0.917 | BZK1737 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-68 | **Client Sample Name:** SB9-5N-00, 10/2/2016 8:38:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **11** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **28** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 2 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/10/16 | 10/12/16 11:57 | JCC | PE-OP3 | 1.887 | BZJ0744 |
| 2 | EPA-6010B | 11/17/16 | 11/18/16 13:18 | JCC | PE-OP3 | 0.909 | BZK1737 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-74 | **Client Sample Name:** SB9-5E-00, 10/2/2016 8:58:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **11** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |
| **Lead** | **31** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 2 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/10/16 | 10/12/16 12:02 | JCC | PE-OP3 | 1.942 | BZJ0744 |
| 2 | EPA-6010B | 11/17/16 | 11/18/16 13:20 | JCC | PE-OP3 | 0.909 | BZK1737 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-77 | **Client Sample Name:** SB47-5W-00, 10/2/2016 9:49:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **9.5** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/10/16 | 10/12/16 12:03 | JCC | PE-OP3 | 1.869 | BZJ0744 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-79 | **Client Sample Name:** SB47-5S-00, 10/2/2016 9:51:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **20** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/10/16 | 10/12/16 12:05 | JCC | PE-OP3 | 1.942 | BZJ0744 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-80 | **Client Sample Name:** SB47-5S-12, 10/2/2016 9:54:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **13** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/17/16 | 11/18/16 15:25 | JCC | PE-OP3 | 4.902 | BZK1737 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-81 | **Client Sample Name:** SB47-5E-00, 10/2/2016 9:48:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **16** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/10/16 | 10/11/16 09:45 | JCC | PE-OP3 | 1 | BZJ0776 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-82 | **Client Sample Name:** SB47-5E-12, 10/2/2016 9:50:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **12** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/17/16 | 11/18/16 15:27 | JCC | PE-OP3 | 1.980 | BZK1737 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-83 | **Client Sample Name:** DUP5A-100216, 10/2/2016 4:00:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **9.5** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 10/10/16 | 10/11/16 10:10 | JCC | PE-OP3 | 0.962 | BZJ0776 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-85 | **Client Sample Name:** SB47-5S-24, 10/2/2016 9:58:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **9.5** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 12/21/16 | 12/22/16 11:42 | JCC | PE-OP3 | 1.980 | BZL1781 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1627779-86 | **Client Sample Name:** SB11-5S-24, 10/1/2016 11:48:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **16** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 11/17/16 | 11/18/16 15:28 | JCC | PE-OP3 | 1.923 | BZK1737 |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: BZJ0744** | | | | | | |
| Arsenic | BZJ0744-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| Lead | BZJ0744-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| **QC Batch ID: BZJ0776** | | | | | | |
| Arsenic | BZJ0776-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| **QC Batch ID: BZJ1818** | | | | | | |
| Arsenic | BZJ1818-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| **QC Batch ID: BZK1737** | | | | | | |
| Arsenic | BZK1737-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| Lead | BZK1737-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| **QC Batch ID: BZL1781** | | | | | | |
| Arsenic | BZL1781-BLK1 | ND | mg/kg | 1.0 | 0.40 | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZJ0744** | | | | | | | | | | |
| Arsenic | BZJ0744-BS1 | LCS | 9.0063 | 10.000 | mg/kg | 90.1 | | 75 - 125 | | |
| Lead | BZJ0744-BS1 | LCS | 100.86 | 100.00 | mg/kg | 101 | | 75 - 125 | | |
| **QC Batch ID: BZJ0776** | | | | | | | | | | |
| Arsenic | BZJ0776-BS1 | LCS | 9.5685 | 10.000 | mg/kg | 95.7 | | 75 - 125 | | |
| **QC Batch ID: BZJ1818** | | | | | | | | | | |
| Arsenic | BZJ1818-BS1 | LCS | 8.5683 | 10.000 | mg/kg | 85.7 | | 75 - 125 | | |
| **QC Batch ID: BZK1737** | | | | | | | | | | |
| Arsenic | BZK1737-BS1 | LCS | 9.1360 | 10.000 | mg/kg | 91.4 | | 75 - 125 | | |
| Lead | BZK1737-BS1 | LCS | 94.075 | 100.00 | mg/kg | 94.1 | | 75 - 125 | | |
| **QC Batch ID: BZL1781** | | | | | | | | | | |
| Arsenic | BZL1781-BS1 | LCS | 10.653 | 10.000 | mg/kg | 107 | | 75 - 125 | | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: BZJ0744** | Used client sample: Y - Description: SB15-5S-00, 10/01/2016 12:11 | | | | | | | | | | |
| **Arsenic** | DUP | **1627778-88** | **11.883** | **10.712** | | **mg/kg** | **10.4** | | **20** | | |
| | MS | **1627778-88** | **11.883** | **19.313** | **10.000** | **mg/kg** | | **74.3** | | **75 - 125** | **Q03** |
| | MSD | **1627778-88** | **11.883** | **19.654** | **10.000** | **mg/kg** | **1.8** | **77.7** | **20** | **75 - 125** | |
| **Lead** | DUP | **1627778-88** | **14.015** | **21.290** | | **mg/kg** | **41.2** | | **20** | | **Q01** |
| | MS | **1627778-88** | **14.015** | **94.781** | **100.00** | **mg/kg** | | **80.8** | | **75 - 125** | |
| | MSD | **1627778-88** | **14.015** | **90.187** | **100.00** | **mg/kg** | **5.0** | **76.2** | **20** | **75 - 125** | |
| **QC Batch ID: BZJ0776** | Used client sample: Y - Description: SB47-5E-00, 10/02/2016 09:48 | | | | | | | | | | |
| Arsenic | DUP | 1627779-81 | 15.797 | 18.179 | | mg/kg | 14.0 | | 20 | | |
| | MS | 1627779-81 | 15.797 | 25.827 | 10.000 | mg/kg | | 100 | | 75 - 125 | |
| | MSD | 1627779-81 | 15.797 | 26.956 | 10.000 | mg/kg | 4.3 | 112 | 20 | 75 - 125 | |
| **QC Batch ID: BZJ1818** | Used client sample: Y - Description: SB19-5W-00, 10/01/2016 13:45 | | | | | | | | | | |
| **Arsenic** | DUP | **1627779-01RE1** | **12.286** | **10.718** | | **mg/kg** | **13.6** | | **20** | | |
| | MS | **1627779-01RE1** | **12.286** | **21.885** | **10.000** | **mg/kg** | | **96.0** | | **75 - 125** | |
| | MSD | **1627779-01RE1** | **12.286** | **19.202** | **10.000** | **mg/kg** | **13.1** | **69.2** | **20** | **75 - 125** | **Q03** |
| **QC Batch ID: BZK1737** | Used client sample: Y - Description: SB4-5E-24, 09/25/2016 12:23 | | | | | | | | | | |
| **Arsenic** | DUP | **1627024-85** | **20.002** | **11.095** | | **mg/kg** | **57.3** | | **20** | | **Q01** |
| | MS | **1627024-85** | **20.002** | **22.327** | **10.000** | **mg/kg** | | **23.2** | | **75 - 125** | **Q03** |
| | MSD | **1627024-85** | **20.002** | **17.254** | **10.000** | **mg/kg** | **25.6** | **-27.5** | **20** | **75 - 125** | **Q03** |
| Lead | DUP | 1627024-85 | 3.9623 | 3.9138 | | mg/kg | 1.2 | | 20 | | J |
| | MS | 1627024-85 | 3.9623 | 88.413 | 100.00 | mg/kg | | 84.5 | | 75 - 125 | |
| | MSD | 1627024-85 | 3.9623 | 90.486 | 100.00 | mg/kg | 2.3 | 86.5 | 20 | 75 - 125 | |
| **QC Batch ID: BZL1781** | Used client sample: N | | | | | | | | | | |
| Arsenic | DUP | 1634749-01 | ND | ND | | mg/kg | | | 20 | | |
| | MS | 1634749-01 | ND | 10.360 | 10.000 | mg/kg | | 104 | | 75 - 125 | |
| | MSD | 1634749-01 | ND | 10.090 | 10.000 | mg/kg | 2.6 | 101 | 20 | 75 - 125 | |

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E2 Managetech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 12/23/2016 7:45
Project: LAUSD - San Pedro HS
Project Number: [none]
Project Manager: Travis Stravasnik

## Notes And Definitions

| | |
|---|---|
| J | Estimated Value (CLP Flag) |
| MDL | Method Detection Limit |
| ND | Analyte Not Detected |
| PQL | Practical Quantitation Limit |
| A07 | Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference. |
| Q01 | Sample precision is not within the control limits. |
| Q03 | Matrix spike recovery(s) is(are) not within the control limits. |

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Date of Report: 04/06/2017

Travis Stravasnik

ENSAFE
12396 World Trade Drive Suite 316
San Diego, CA 92128

| | |
|---|---|
| Client Project: | [none] |
| BCL Project: | LAUSD: San Pedro High School |
| BCL Work Order: | 1707927 |
| Invoice ID: | B263793 |

Enclosed are the results of analyses for samples received by the laboratory on 3/27/2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature



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Total Concentrations (TTLC)..... 17
**1707927-03 - SB26-35N-24**
Total Concentrations (TTLC)..... 18
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**Chain of Custody and Cooler Receipt Form for 1707927 Page 1 of 7**

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BC LABORATORIES, INC. | 4100 Atlas Court, Bakersfield, CA 93308 Phone (661) 327-4911 FAX (661) 327-1918 | CHAIN OF CUSTODY

**Project Information** 17-0792

**Name:** ENSAFE — **Phone:** office: 562-740-1060

**Address:** 5001 Airport Plaza Dr, # 260, Long Beach, CA 90815 — **Project:** LAUSD San Pedro HS

**Attn:** Travis Stravasnik (tstravasnik@ensafe.com) — **Project #:** 16-201-005

**Sampler(s):** KEVIN LIN — **PO#**

**Comments:** Normal Turnaround Time

| Lab# | Sample ID | Date & Time Sampled | Sample Matrix: Soil | Water | Lead – EPA Method 6010B | Arsenic - EPA Method 6010B | Organochlorine Pesticides - EPA Method 8081 | Polychlorinated Biphenyls - EPA Method 8082 | TPH (gas, diesel, oil) - EPA Method 8015 | VOCs – EPA Method 8260B | CAM 22/T22 Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| -1 | SB26-35N-00 | 3/25/2017 0750 | X | | | X | | | | | |
| -2 | SB26-35N-12 | 3/25/2017 0757 | | | | X | | | | | |
| -3 | SB26-35N-24 | 3/25/2017 0802 | | | | X | | | | | |
| -4 | SB26-25N-00 | 3/25/2017 0805 | | | | X | | | | | |
| -5 | SB26-25N-12 | 3/25/2017 0813 | | | | X | | | | | |
| -6 | SB26-25N-24 | 3/25/2017 0817 | | | | X | | | | | |
| -7 | SB26-15N-00 | 3/25/2017 0825 | | | | X | | | | | |
| -8 | SB26-15N-12 | 3/25/2017 0830 | | | | X | | | | | |
| -9 | SB26-15N-24 | 3/25/2017 0836 | | | | X | | | | | |
| -10 | SB34-15S-00 | 3/25/2017 0902 | | | X | | | | | | |
| -11 | SB34-15S-12 | 3/25/2017 0905 | | | X | | | | | | |
| -12 | SB34-15S-24 | 3/25/2017 0910 | | | X | | | | | | |

Relinquished By: [signature] Received By: [signature] Date and Time: 3/27/17 11A.

Relinquished By: [signature] 3/27/17 Received By: [signature] Date and Time: 3/27/17 1745

Relinquished By: [signature] 3/27/17 1915 Received By: [signature] Date and Time: 3/28/17 0945

| BC LABORATORIES, INC. | 4100 Atlas Court, Bakersfield, CA 93308 Phone (661) 327-4911 FAX (661) 327-1918 | CHAIN OF CUSTODY |
|---|---|---|

17-07927 — Project Information

**Name:** ENSAFE — **Phone:** office: 562-740-1060

**Address:** 5001 Airport Plaza Dr, # 260, Long Beach, CA 90815 — **Project:** LAUSD San Pedro HS

**Attn:** Travis Stravasnik (tstravasnik@ensafe.com) — **Project #:** 16-201-005

**Sampler(s):** KEVIN LIN — **PO#**

**Comments:** Normal Turnaround Time

| Lab# | Sample ID | Date & Time Sampled | Sample Matrix: Soil | Sample Matrix: Water | Analysis Requested: Lead – EPA Method 6010B | Arsenic - EPA Method 6010B | Organochlorine Pesticides - EPA Method 8081 | Polychlorinated Biphenyls - EPA Method 8082 | TPH (gas, diesel, oil) - EPA Method 8015 | VOCs – EPA Method 8260B | CAM 22/T22 Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | SB19-20E-00 | 3/25/2017 0924 | X | | | X | | | | | |
| 14 | SB19-20E-12 | 3/25/2017 0929 | ↓ | | | ↓ | | | | | |
| 15 | SB19-20E-24 | 3/25/2017 0931 | | | | | | | | | |
| 16 | SB19-15E-00 | 3/25/2017 0939 | | | | | | | | | |
| 17 | SB19-15E-12 | 3/25/2017 0941 | | | | | | | | | |
| 18 | SB19-15E-24 | 3/25/2017 0945 | | | | | | | | | |
| 19 | SB6-15E-00 | 3/25/2017 0955 | | | | | | | | | |
| 20 | SB6-15E-12 | 3/25/2017 1000 | | | | | | | | | |
| 21 | SB6-15E-24 | 3/25/2017 1005 | | | | | | | | | |
| 22 | SB6-20E-00 | 3/25/2017 1023 | | | | | | | | | |
| 23 | SB6-20E-12 | 3/25/2017 1028 | | | | | | | | | |
| 24 | SB41-15E-00 | 3/25/2017 1055 | ↓ | | | ↓ | | | | | |

| | | |
|---|---|---|
| Relinquished By: | Received By: | Date and Time: 3/27/17 11 |
| Relinquished By: 3/27/17 SAK | Received By: | Date and Time: 3/27/17 1745 |
| Relinquished By: 3/27/17 1915 | Received By: | Date and Time: 3/27 1915 |

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**BC LABORATORIES, INC.** | 4100 Atlas Court, Bakersfield, CA 93308 Phone (661) 327-4911 FAX (661) 327-1918 | **CHAIN OF CUSTODY**

**Project Information** 1707927

**Name:** ENSAFE | **Phone:** office: 562-740-1060

**Address:** 5001 Airport Plaza Dr, # 260, Long Beach, CA 90815 | **Project:** LAUSD San Pedro HS

**Attn:** Travis Stravasnik (tstravasnik@ensafe.com) | **Project #:** 16-201-005

**Sampler(s):** KEVIN LIN | **PO#**

**Cc ents:** Normal Turnaround Time

| Lab# | Sample ID | Date & Time Sampled | Sample Matrix: Soil | Water | Analysis Requested: Lead – EPA Method 6010B | Arsenic - EPA Method 6010B | Organochlorine Pesticides - EPA Method 8081 | Polychlorinated Biphenyls - EPA Method 8082 | TPH (gas, diesel, oil) - EPA Method 8015 | VOCs – EPA Method 8260B | CAM 22/T22 Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| -25 | SB41-15E-12 | 3/25/2017 1058 | X | | | X | | | | | |
| -26 | SB41-15E-24 | 3/25/2017 1105 | | | | X | | | | | |
| -27 | SB41-20E-00 | 3/25/2017 1108 | | | | X | | | | | |
| -28 | SB41-20E-12 | 3/25/2017 1111 | | | | X | | | | | |
| -29 | SB41-20E-24 | 3/25/2017 1114 | | | | X | | | | | |
| -30 | 032517-DUP1 | 3/25/2017 0400 | | | | X | | | | | |
| -31 | 032517-DUP2 | 3/25/2017 0200 | | | | X | | | | | |
| -32 | 032517-DUP3 | 3/25/2017 2359 | | | | X | | | | | |
| -33 | 032517-DUP4 | 3/25/2017 0100 | ↓ | | X | | | | | | |
| | | 3/25/2017 | | | | | | | | | |
| | | 3/25/2017 | | | | | | | | | |
| | | 3/25/2017 | | | | | | | | | |

| | | |
|---|---|---|
| Relinquished By: | Received By: | Date and Time: 3/25/17 1745 |
| Relinquished By: | Received By: | Date and Time: 3/25/17 1745 |
| Relinquished By: | Received By: | Date and Time: 3/27 1915 |

**Chain of Custody and Cooler Receipt Form for 1707927 Page 4 of 7**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 84

Submission #: 17-07927

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.98 Container: Clr Glass Thermometer ID: 008 Date/Time: 3/27 1915

Temperature: (A) 0.6 °C / (C) 0.5 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| T PE UNPRES | | | | | | | | | | |
| z / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| z $Cr^{+6}$ | | | | | | | | | | |
| T INORGANIC CHEMICAL METALS | | | | | | | | | | |
| ORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| CYANIDE | | | | | | | | | | |
| NITROGEN FORMS | | | | | | | | | | |
| TOTAL SULFIDE | | | | | | | | | | |
| z. NITRATE / NITRITE | | | | | | | | | | |
| TOTAL ORGANIC CARBON | | | | | | | | | | |
| CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| A PHENOLICS | | | | | | | | | | |
| ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| ml VOA VIAL | | | | | | | | | | |
| EPA 1664 | | | | | | | | | | |
| ODOR | | | | | | | | | | |
| DIOLOGICAL | | | | | | | | | | |
| CTERIOLOGICAL | | | | | | | | | | |
| ml VOA VIAL- 504 | | | | | | | | | | |
| EPA 508/608/8080 | | | | | | | | | | |
| EPA 515.1/8150 | | | | | | | | | | |
| EPA 525 | | | | | | | | | | |
| EPA 525 TRAVEL BLANK | | | | | | | | | | |
| ml EPA 547 | | | | | | | | | | |
| ml EPA 531.1 | | | | | | | | | | |
| EPA 548 | | | | | | | | | | |
| EPA 549 | | | | | | | | | | |
| EPA 8015M | | | | | | | | | | |
| EPA 8270 | | | | | | | | | | |
| / 16oz / 32oz AMBER | | | | | | | | | | |
| / 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| IL SLEEVE | | | | | | | | | | |
| B VIAL | | | | | | | | | | |
| ASTIC BAG | | | | | | | | | | |
| DLAR BAG | | | | | | | | | | |
| RROUS IRON | | | | | | | | | | |
| CORE | | | | | | | | | | |
| ART KIT | | | | | | | | | | |
| MMA CANISTER | | | | | | | | | | |

Comments:_____

Sample Numbering Completed By: JNL Date/Time: 3-28-17 0920

A = Actual / C = Corrected

Rev 21 05/23/2016

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BC LABORATORIES INC. — COOLER RECEIPT FORM — Page 2 Of 3 4

Submission #: 17-07927

**SHIPPING INFORMATION**
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

**SHIPPING CONTAINER**
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

**FREE LIQUID**
YES ☐ NO ☐
W / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.98 Container: CLR Glass Thermometer ID: 008 Date/Time: 3/27 1915

Temperature: (A) 0.6 °C / (C) 0.5 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | ~~10~~ 20 |
|---|---|---|---|---|---|---|---|---|---|---|
| T PE UNPRES | | | | | | | | | | |
| oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| oz $Cr^{+6}$ | | | | | | | | | | |
| T INORGANIC CHEMICAL METALS | | | | | | | | | | |
| ORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| T CYANIDE | | | | | | | | | | |
| T NITROGEN FORMS | | | | | | | | | | |
| T TOTAL SULFIDE | | | | | | | | | | |
| z. NITRATE / NITRITE | | | | | | | | | | |
| T TOTAL ORGANIC CARBON | | | | | | | | | | |
| T CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| A PHENOLICS | | | | | | | | | | |
| ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| ml VOA VIAL | | | | | | | | | | |
| T EPA 1664 | | | | | | | | | | |
| ODOR | | | | | | | | | | |
| ADIOLOGICAL | | | | | | | | | | |
| ACTERIOLOGICAL | | | | | | | | | | |
| ml VOA VIAL- 504 | | | | | | | | | | |
| T EPA 508/608/8080 | | | | | | | | | | |
| T EPA 515.1/8150 | | | | | | | | | | |
| T EPA 525 | | | | | | | | | | |
| T EPA 525 TRAVEL BLANK | | | | | | | | | | |
| ml EPA 547 | | | | | | | | | | |
| ml EPA 531.1 | | | | | | | | | | |
| z EPA 548 | | | | | | | | | | |
| T EPA 549 | | | | | | | | | | |
| T EPA 8015M | | | | | | | | | | |
| T EPA 8270 | | | | | | | | | | |
| / 16oz / 32oz AMBER | A | A | A | A | A | A | A | A | A | A |
| 16oz / 32oz JAR | | | | | | | | | | |
| IL SLEEVE | | | | | | | | | | |
| B VIAL | | | | | | | | | | |
| ASTIC BAG | | | | | | | | | | |
| DLAR BAG | | | | | | | | | | |
| RROUS IRON | | | | | | | | | | |
| CORE | | | | | | | | | | |
| ART KIT | | | | | | | | | | |
| MMA CANISTER | | | | | | | | | | |

nments:_____

nple Numbering Completed By: JNL Date/Time: 3-28-17 0920 Rev 21 05/23/2016

= Actual / C = Corrected

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 Of 4

Submission #: 17-07927

**SHIPPING INFORMATION**
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

**SHIPPING CONTAINER**
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

**FREE LIQUID**
YES ☐ NO ☐
W / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.98 Container: CLR Glass Thermometer ID: 008

Temperature: (A) 0.6 °C / (C) 0.5 °C

Date/Time 3/27 1915

Analyst Init M

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 30 ~~10~~ |
|---|---|---|---|---|---|---|---|---|---|---|
| )T PE UNPRES | | | | | | | | | | |
| oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| oz $Cr^{+6}$ | | | | | | | | | | |
| )T INORGANIC CHEMICAL METALS | | | | | | | | | | |
| NORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| 'T CYANIDE | | | | | | | | | | |
| 'T NITROGEN FORMS | | | | | | | | | | |
| 'T TOTAL SULFIDE | | | | | | | | | | |
| oz. NITRATE / NITRITE | | | | | | | | | | |
| 'T TOTAL ORGANIC CARBON | | | | | | | | | | |
| 'T CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| 'A PHENOLICS | | | | | | | | | | |
| 0ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 0ml VOA VIAL | | | | | | | | | | |
| )T EPA 1664 | | | | | | | | | | |
| 'T ODOR | | | | | | | | | | |
| 'ADIOLOGICAL | | | | | | | | | | |
| 'ACTERIOLOGICAL | | | | | | | | | | |
| 0 ml VOA VIAL- 504 | | | | | | | | | | |
| )T EPA 508/608/8080 | | | | | | | | | | |
| )T EPA 515.1/8150 | | | | | | | | | | |
| )T EPA 525 | | | | | | | | | | |
| )T EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 0ml EPA 547 | | | | | | | | | | |
| 0ml EPA 531.1 | | | | | | | | | | |
| oz EPA 548 | | | | | | | | | | |
| )T EPA 549 | | | | | | | | | | |
| )T EPA 8015M | | | | | | | | | | |
| )T EPA 8270 | | | | | | | | | | |
| oz / 16oz / 32oz AMBER | A | A | A | A | A | A | A | A | A | A |
| oz / 16oz / 32oz JAR | | | | | | | | | | |
| 'OIL SLEEVE | | | | | | | | | | |
| 'CB VIAL | | | | | | | | | | |
| 'LASTIC BAG | | | | | | | | | | |
| 'EDLAR BAG | | | | | | | | | | |
| 'ERROUS IRON | | | | | | | | | | |
| 'NCORE | | | | | | | | | | |
| 'MART KIT | | | | | | | | | | |
| 'UMMA CANISTER | | | | | | | | | | |

Comments:_____

Sample Numbering Completed By: JNL Date/Time: 3-28-17 0920

A = Actual / C = Corrected

Rev 21 05/23/2016
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BC LABORATORIES INC. COOLER RECEIPT FORM Page 43 of 84

Submission #: 17-07927

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| ed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☐ No ☐ All samples containers intact? Yes ☐ No ☐ Description(s) match COC? Yes ☐ No ☐

☒ COC Received ☐ YES ☐ NO

Emissivity: 0.98 Container: 1L Glass Thermometer ID: 008 Date/Time: 3/27 1915

Temperature: (A) 0.6 °C / (C) 0.5 °C Analyst Init: M

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| PE UNPRES | | | | | | | | | | |
| / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| Cr+6 | | | | | | | | | | |
| INORGANIC CHEMICAL METALS | | | | | | | | | | |
| ORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| CYANIDE | | | | | | | | | | |
| NITROGEN FORMS | | | | | | | | | | |
| TOTAL SULFIDE | | | | | | | | | | |
| NITRATE / NITRITE | | | | | | | | | | |
| TOTAL ORGANIC CARBON | | | | | | | | | | |
| CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PHENOLICS | | | | | | | | | | |
| l VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| l VOA VIAL | | | | | | | | | | |
| EPA 1664 | | | | | | | | | | |
| ODOR | | | | | | | | | | |
| DIOLOGICAL | | | | | | | | | | |
| CTERIOLOGICAL | | | | | | | | | | |
| l VOA VIAL- 504 | | | | | | | | | | |
| EPA 508/608/8080 | | | | | | | | | | |
| EPA 515.1/8150 | | | | | | | | | | |
| EPA 525 | | | | | | | | | | |
| EPA 525 TRAVEL BLANK | | | | | | | | | | |
| EPA 547 | | | | | | | | | | |
| EPA 531.1 | | | | | | | | | | |
| EPA 548 | | | | | | | | | | |
| EPA 549 | | | | | | | | | | |
| EPA 8015M | | | | | | | | | | |
| EPA 8270 | | | | | | | | | | |
| / 16oz / 32oz AMBER | | | | | | | | | | |
| 16oz / 32oz JAR | A | A | A | | | | | | | |
| L SLEEVE | | | | | | | | | | |
| VIAL | | | | | | | | | | |
| STIC BAG | | | | | | | | | | |
| LAR BAG | | | | | | | | | | |
| ROUS IRON | | | | | | | | | | |
| CORE | | | | | | | | | | |
| ART KIT | | | | | | | | | | |
| MMA CANISTER | | | | | | | | | | |

ments:

ple Numbering Completed By: JNL Date/Time: 3-28-17 0920

Actual / C = Corrected

Rev 21 05/23/2016

[S:\WPDocs\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 20]

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**Reported:** 04/06/2017 11:16
Project: LAUSD: San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1707927-01** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 07:50 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB26-35N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | Kevin Lin | **Sample Type:** | Soil |
| **1707927-02** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 07:57 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB26-35N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-03** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 08:02 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB26-35N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-04** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 08:08 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB26-25N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-05** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 08:13 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB26-25N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-06** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 08:17 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB26-25N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-07** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 08:25 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB26-15N-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Project: LAUSD: San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1707927-08** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 08:30 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB26-15N-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-09** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 08:36 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB26-15N-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-10** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 09:02 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB34-15S-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-11** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 09:05 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB34-15S-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-12** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 09:10 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB34-15S-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-13** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 09:24 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB19-20E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-14** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 09:28 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB19-20E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1707927-15** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 09:31 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB19-20E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-16** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 09:39 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB19-15E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-17** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 09:41 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB19-15E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-18** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 09:45 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB19-15E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-19** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 09:55 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB6-15E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-20** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 10:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB6-15E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-21** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 10:05 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB6-15E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1707927-22** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 10:23 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB6-20E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-23** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 10:28 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB6-20E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-24** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 10:55 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB41-15E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-25** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 10:58 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB41-15E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-26** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 11:05 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB41-15E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-27** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 11:08 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB41-20E-00 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-28** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 11:11 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB41-20E-12 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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Project Number: [none]
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1707927-29** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 11:14 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB41-20E-24 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-30** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 04:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | D32517-DUP1 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-31** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 02:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | D32517-DUP2 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-32** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 23:59 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | D32517-DUP3 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |
| **1707927-33** | **COC Number:** | --- | **Receive Date:** | 03/27/2017 19:15 |
| | **Project Number:** | --- | **Sampling Date:** | 03/25/2017 01:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | D32517-DUP4 | **Lab Matrix:** | Solids |
| | **Sampled By:** | --- | **Sample Type:** | Soil |

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**Reported:** 04/06/2017 11:16
Project: LAUSD: San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-01 | **Client Sample Name:** SB26-35N-00, 3/25/2017 7:50:00AM, Kevin Lin

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **13** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 03/29/17 | 03/30/17 13:24 | JCC | PE-OP3 | 1.869 | B[C2882 |

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**Reported:** 04/06/2017 11:16
Project: LAUSD: San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-02 | **Client Sample Name:** SB26-35N-12, 3/25/2017 7:57:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **24** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 03/29/17 | 03/30/17 13:29 | JCC | PE-OP3 | 1.961 | B[C2882 |

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**Reported:** 04/06/2017 11:16
Project: LAUSD: San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-03 | **Client Sample Name:** SB26-35N-24, 3/25/2017 8:02:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **1.9** | **mg/kg** | **2.0** | **0.80** | **EPA-6010B** | 500 | **J** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 03/29/17 | 03/30/17 13:30 | JCC | PE-OP3 | 1.905 | B[C2882 |

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**Reported:** 04/06/2017 11:16
Project: LAUSD: San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-04 | **Client Sample Name:** SB26-25N-00, 3/25/2017 8:08:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **14** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 03/31/17 | 04/03/17 15:49 | JCC | PE-OP3 | 0.980 | B[C3099 |

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**Reported:** 04/06/2017 11:16
Project: LAUSD: San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-05 | **Client Sample Name:** SB26-25N-12, 3/25/2017 8:13:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **17** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 03/31/17 | 04/03/17 11:36 | JCC | PE-OP3 | 4.630 | B[C3099 |

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**Reported:** 04/06/2017 11:16
Project: LAUSD: San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-06 | **Client Sample Name:** SB26-25N-24, 3/25/2017 8:17:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **1.1** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 03/31/17 | 04/03/17 15:55 | JCC | PE-OP3 | 0.917 | B[C3099 |

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**Reported:** 04/06/2017 11:16
Project: LAUSD: San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-07 | **Client Sample Name:** SB26-15N-00, 3/25/2017 8:25:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **15** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 03/31/17 | 04/03/17 15:56 | JCC | PE-OP3 | 0.962 | B[C3099 |

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**Reported:** 04/06/2017 11:16
Project: LAUSD: San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-08 | **Client Sample Name:** SB26-15N-12, 3/25/2017 8:30:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **8.6** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 03/31/17 | 04/03/17 15:58 | JCC | PE-OP3 | 0.952 | B[C3099 |

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**Reported:** 04/06/2017 11:16
Project: LAUSD: San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-09 | **Client Sample Name:** SB26-15N-24, 3/25/2017 8:36:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **1.6** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 03/31/17 | 04/03/17 15:59 | JCC | PE-OP3 | 0.943 | B[C3099 |

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Project: LAUSD: San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-10 | **Client Sample Name:** SB34-15S-00, 3/25/2017 9:02:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **140** | **mg/kg** | **12** | **1.4** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 03/31/17 | 04/03/17 11:18 | JCC | PE-OP3 | 5 | B[C3099 |

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Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-11 | **Client Sample Name:** SB34-15S-12, 3/25/2017 9:05:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **6.7** | **mg/kg** | **12** | **1.4** | **EPA-6010B** | 1000 | **J,A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 03/31/17 | 04/03/17 11:46 | JCC | PE-OP3 | 4.950 | B[C3099 |

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Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-12 | **Client Sample Name:** SB34-15S-24, 3/25/2017 9:10:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **40** | **mg/kg** | **12** | **1.4** | **EPA-6010B** | 1000 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 03/29/17 | 03/30/17 12:53 | JCC | PE-OP3 | 5 | B[C2823 |

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Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-13 | **Client Sample Name:** SB19-20E-00, 3/25/2017 9:24:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **7.4** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 03/31/17 | 04/03/17 11:48 | JCC | PE-OP3 | 4.717 | B[C3099 |

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Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-14 | **Client Sample Name:** SB19-20E-12, 3/25/2017 9:28:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **8.5** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 03/31/17 | 04/03/17 16:02 | JCC | PE-OP3 | 0.935 | B[C3099 |

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Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-15 | **Client Sample Name:** SB19-20E-24, 3/25/2017 9:31:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **7.8** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 03/31/17 | 04/03/17 16:03 | JCC | PE-OP3 | 0.971 | B[C3099 |

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Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-16 | **Client Sample Name:** SB19-15E-00, 3/25/2017 9:39:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **10** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 03/31/17 | 04/03/17 12:03 | JCC | PE-OP3 | 4.630 | B[C3099 |

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Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-17 | **Client Sample Name:** SB19-15E-12, 3/25/2017 9:41:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **13** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 03/31/17 | 04/03/17 16:05 | JCC | PE-OP3 | 0.943 | B[C3099 |

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# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-18 | **Client Sample Name:** SB19-15E-24, 3/25/2017 9:45:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **8.1** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 03/31/17 | 04/03/17 16:06 | JCC | PE-OP3 | 0.990 | B[C3099 |

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Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-19 | **Client Sample Name:** SB6-15E-00, 3/25/2017 9:55:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **6.8** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 03/31/17 | 04/03/17 12:08 | JCC | PE-OP3 | 4.902 | B[C3099 |

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Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-20 | **Client Sample Name:** SB6-15E-12, 3/25/2017 10:00:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **13** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 03/31/17 | 04/03/17 12:10 | JCC | PE-OP3 | 4.950 | B[C3099 |

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Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-21 | **Client Sample Name:** SB6-15E-24, 3/25/2017 10:05:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **10** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 03/31/17 | 04/03/17 12:12 | JCC | PE-OP3 | 4.587 | B[C3099 |

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# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-22 | **Client Sample Name:** SB6-20E-00, 3/25/2017 10:23:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **10** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 03/29/17 | 04/03/17 13:36 | JCC | PE-OP3 | 5 | B[C2882 |

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# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-23 | **Client Sample Name:** SB6-20E-12, 3/25/2017 10:28:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **14** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 03/31/17 | 04/03/17 16:01 | JCC | PE-OP3 | 0.909 | B[C3099 |

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Project: LAUSD: San Pedro High School
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Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-24 | **Client Sample Name:** SB41-15E-00, 3/25/2017 10:55:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **11** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 04/01/17 | 04/03/17 10:32 | JCC | PE-OP3 | 4.673 | B[D0001 |

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Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-25 | **Client Sample Name:** SB41-15E-12, 3/25/2017 10:58:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **7.0** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 04/01/17 | 04/03/17 10:37 | JCC | PE-OP3 | 4.762 | B[D0001 |

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Project: LAUSD: San Pedro High School
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Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-26 | **Client Sample Name:** SB41-15E-24, 3/25/2017 11:05:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **7.7** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 04/01/17 | 04/03/17 15:42 | JCC | PE-OP3 | 0.971 | B[D0001 |

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# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-27 | **Client Sample Name:** SB41-20E-00, 3/25/2017 11:08:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **6.8** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 04/01/17 | 04/03/17 15:43 | JCC | PE-OP3 | 0.962 | B[D0001 |

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Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-28 | **Client Sample Name:** SB41-20E-12, 3/25/2017 11:11:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **7.1** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 04/01/17 | 04/03/17 10:42 | JCC | PE-OP3 | 4.673 | B[D0001 |

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**Reported:** 04/06/2017 11:16
Project: LAUSD: San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-29 | **Client Sample Name:** SB41-20E-24, 3/25/2017 11:14:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **6.8** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 04/01/17 | 04/03/17 15:45 | JCC | PE-OP3 | 0.943 | B[D0001 |

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**Reported:** 04/06/2017 11:16
Project: LAUSD: San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-30 | **Client Sample Name:** D32517-DUP1, 3/25/2017 4:00:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **6.3** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 04/01/17 | 04/03/17 10:22 | JCC | PE-OP3 | 4.630 | B[D0001 |

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Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-31 | **Client Sample Name:** D32517-DUP2, 3/25/2017 2:00:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **7.6** | **mg/kg** | **5.0** | **2.0** | **EPA-6010B** | 500 | **A07** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 04/01/17 | 04/03/17 10:45 | JCC | PE-OP3 | 4.630 | B[D0001 |

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ENSAFE
12396 World Trade Drive Suite 316
San Diego, CA 92128

**Reported:** 04/06/2017 11:16
Project: LAUSD: San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-32 | **Client Sample Name:** D32517-DUP3, 3/25/2017 11:59:00PM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **15** | **mg/kg** | **1.0** | **0.40** | **EPA-6010B** | 500 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 04/01/17 | 04/03/17 15:46 | JCC | PE-OP3 | 0.935 | B[D0001 |

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ENSAFE
12396 World Trade Drive Suite 316
San Diego, CA 92128

**Reported:** 04/06/2017 11:16
Project: LAUSD: San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

**BCL Sample ID:** 1707927-33 | **Client Sample Name:** D32517-DUP4, 3/25/2017 1:00:00AM

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **120** | **mg/kg** | **2.5** | **0.28** | **EPA-6010B** | 1000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 04/01/17 | 04/03/17 15:48 | JCC | PE-OP3 | 0.943 | B[D0001 |

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San Diego, CA 92128

**Reported:** 04/06/2017 11:16
Project: LAUSD: San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: B[C2823** | | | | | | |
| Lead | B[C2823-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| **QC Batch ID: B[C2882** | | | | | | |
| Arsenic | B[C2882-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| **QC Batch ID: B[C3099** | | | | | | |
| Arsenic | B[C3099-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| Lead | B[C3099-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| **QC Batch ID: B[D0001** | | | | | | |
| Arsenic | B[D0001-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| Lead | B[D0001-BLK1 | ND | mg/kg | 2.5 | 0.28 | |

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San Diego, CA 92128

**Reported:** 04/06/2017 11:16
Project: LAUSD: San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: B[C2823** | | | | | | | | | | |
| Lead | B[C2823-BS1 | LCS | 91.507 | 100.00 | mg/kg | 91.5 | | 75 - 125 | | |
| **QC Batch ID: B[C2882** | | | | | | | | | | |
| Arsenic | B[C2882-BS1 | LCS | 9.0852 | 10.000 | mg/kg | 90.9 | | 75 - 125 | | |
| **QC Batch ID: B[C3099** | | | | | | | | | | |
| Arsenic | B[C3099-BS1 | LCS | 9.8120 | 10.000 | mg/kg | 98.1 | | 75 - 125 | | |
| Lead | B[C3099-BS1 | LCS | 95.357 | 100.00 | mg/kg | 95.4 | | 75 - 125 | | |
| **QC Batch ID: B[D0001** | | | | | | | | | | |
| Arsenic | B[D0001-BS1 | LCS | 8.8935 | 10.000 | mg/kg | 88.9 | | 75 - 125 | | |
| Lead | B[D0001-BS1 | LCS | 90.526 | 100.00 | mg/kg | 90.5 | | 75 - 125 | | |

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ENSAFE
12396 World Trade Drive Suite 316
San Diego, CA 92128

**Reported:** 04/06/2017 11:16
Project: LAUSD: San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

# Total Concentrations (TTLC)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: B[C2823** | Used client sample: Y - Description: SB34-15S-24, 03/25/2017 09:10 | | | | | | | | | | |
| **Lead** | DUP | **1707927-12** | **39.712** | **39.835** | | **mg/kg** | **0.3** | | **20** | | |
| | MS | **1707927-12** | **39.712** | **119.13** | **100.00** | **mg/kg** | | **79.4** | | **75 - 125** | |
| | MSD | **1707927-12** | **39.712** | **114.25** | **100.00** | **mg/kg** | **4.2** | **74.5** | **20** | **75 - 125** | **Q03** |
| **QC Batch ID: B[C2882** | Used client sample: Y - Description: SB6-20E-00, 03/25/2017 10:23 | | | | | | | | | | |
| Arsenic | DUP | 1707927-22 | 10.156 | 11.079 | | mg/kg | 8.7 | | 20 | | |
| | MS | 1707927-22 | 10.156 | 20.319 | 10.000 | mg/kg | | 102 | | 75 - 125 | |
| | MSD | 1707927-22 | 10.156 | 19.421 | 10.000 | mg/kg | 4.5 | 92.7 | 20 | 75 - 125 | |
| **QC Batch ID: B[C3099** | Used client sample: Y - Description: SB34-15S-00, 03/25/2017 09:02 | | | | | | | | | | |
| Arsenic | DUP | 707927-10RE1 | 11.592 | 12.238 | | mg/kg | 5.4 | | 20 | | |
| | MS | 707927-10RE1 | 11.592 | 23.210 | 10.000 | mg/kg | | 116 | | 75 - 125 | |
| | MSD | 707927-10RE1 | 11.592 | 19.824 | 10.000 | mg/kg | 15.7 | 82.3 | 20 | 75 - 125 | |
| **Lead** | DUP | **1707927-10RE1** | **139.69** | **215.97** | | **mg/kg** | **42.9** | | **20** | | **Q01** |
| | MS | **1707927-10RE1** | **139.69** | **221.51** | **100.00** | **mg/kg** | | **81.8** | | **75 - 125** | |
| | MSD | **1707927-10RE1** | **139.69** | **230.47** | **100.00** | **mg/kg** | **4.0** | **90.8** | **20** | **75 - 125** | |
| **QC Batch ID: B[D0001** | Used client sample: Y - Description: D32517-DUP1, 03/25/2017 04:00 | | | | | | | | | | |
| **Arsenic** | DUP | **1707927-30** | **6.3494** | **8.4428** | | **mg/kg** | **28.3** | | **20** | | **A02** |
| | MS | **1707927-30** | **6.3494** | **18.785** | **10.000** | **mg/kg** | | **124** | | **75 - 125** | |
| | MSD | **1707927-30** | **6.3494** | **20.343** | **10.000** | **mg/kg** | **8.0** | **140** | **20** | **75 - 125** | **Q03** |
| Lead | DUP | 1707927-30 | 3.8360 | 3.9178 | | mg/kg | 2.1 | | 20 | | J |
| | MS | 1707927-30 | 3.8360 | 81.940 | 100.00 | mg/kg | | 78.1 | | 75 - 125 | |
| | MSD | 1707927-30 | 3.8360 | 87.937 | 100.00 | mg/kg | 7.1 | 84.1 | 20 | 75 - 125 | |

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ENSAFE
12396 World Trade Drive Suite 316
San Diego, CA 92128

**Reported:** 04/06/2017 11:16
Project: LAUSD: San Pedro High School
Project Number: [none]
Project Manager: Travis Stravasnik

## Notes And Definitions

| | |
|---|---|
| J | Estimated Value (CLP Flag) |
| MDL | Method Detection Limit |
| ND | Analyte Not Detected |
| PQL | Practical Quantitation Limit |
| A02 | The difference between duplicate readings is less than the quantitation limit. |
| A07 | Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference. |
| Q01 | Sample precision is not within the control limits. |
| Q03 | Matrix spike recovery(s) is(are) not within the control limits. |

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**Appendix E**
**Radon Gas Survey Report**

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Radon Testing Services

www.californiaradontesting.com

# Radon Gas Survey

*This inspection performed in accordance with the ANSI/AARST standard MALB-2014 "Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings."*
This is a limited survey based on specific rooms selected by client.

Prepared for: San Pedro High School

Inspection Site: 1001 W. 15th Street
San Pedro, CA 90731



**Radon Testing Services**
207 W. Los Angeles Ave., #188, Moorpark, CA 93021
(805) 529-1125

CONFIDENTIAL

**Radon Testing Services**
**207 W. Los Angeles Ave., #188**
**Moorpark, CA 93021**

NRPP ID #100519 RT-MFM
California State Certification

# REPORT OF FINDINGS—*RADON* GAS

| | | | |
|---|---|---|---|
| Prepared On: | August 12, 2016 | Sample Reason: | School |
| Test ID# | 4966 | Sample Type: | Short term screening |
| Test Start: | 08/06/2016 | Closed Building RequirementsDiscussed? | Yes |
| Test Stop: | 08/08/2016 | Structure occupied during test? | No |
| Total Test Time: | 48 hours | | |

## Highest Measured Value: 3.9 pCi/l

The EPA has set the action level for radon gas at 4.0 pCi/l.
Ambient outdoor levels are typically 0.4 pCi/l.
Average indoor levels nationwide are typically 1.2 pCi/l.
The World Health Organization recommends radon levels be reduced to below 2.7 pCi/l as an annual avg.
The EPA suggests considering reducing levels to below 2.0 pCi/l as an annual average.

**Further guidance on interpreting your test results can be found at the following websites:

http://www.cdph.ca.gov/healthinfo/environhealth/Pages/Radon.aspx
http://www.epa.gov/radon/pubs/hmbyguid.html
www.radongas.org
www.Radon-Be-Gone.com



## TEST DETAILS -- Radon in Air

These devices were analyzed by RAdata NRPP Lab ID# 101196AL and were analyzed via the EPA Method #402-R-92-004. Copy of laboratory results attached.

| | Device Type | Serial # | Level | Foundation | Room | Result |
|---|---|---|---|---|---|---|
| | Administration Building | | | | | |
| 01) | LS | 0939327 | 0 | slab | Photo Lab | <0.2 pCi/L |
| 02) | LS | 0939334 | 0 | slab | Photo Lab | <0.2 pCi/L |
| 03) | LS | 0939292 | 0 | slab | Photo Class | <0.2 pCi/L |
| 04) | LS | 0939331 | 0 | slab | Ceramics | 0.3 pCi/L |
| 05) | LS | 0939274 | 0 | slab | Blank | <0.2 pCi/L |
| 06) | LS | 0939251 | 0 | slab | File Room | <0.2 pCi/L |
| | Classroom Building 1 | | | | | |
| 07) | LS | 0939267 | 1 | raised | 120 | 2.1 pCi/L |
| 08) | LS | 0939265 | 1 | raised | 121 | 2.7 pCi/L |
| 09) | LS | 0939330 | 1 | raised | 122 | 0.9 pCi/L |
| 10) | LS | 0939266 | 1 | raised | 124 | 0.5 pCi/L |
| 11) | LS | 0939283 | 1 | raised | 123 | 1.9 pCi/L |
| 12) | LS | 0939321 | 1 | raised | 125 | 2.3 pCi/L |
| 13) | LS | 0939326 | 1 | raised | 126 | 0.9 pCi/L |
| 14) | LS | 0939336 | 1 | raised | 126 | 1.0 pCi/L |
| 15) | LS | 0939333 | 1 | raised | 127 | 2.0 pCi/L |
| 16) | LS | 0939325 | 1 | raised | 229 | 3.4 pCi/L |
| 17) | LS | 0939294 | 1 | raised | 228 | 2.4 pCi/L |
| 18) | LS | 0939324 | 1 | raised | 230 | 2.6 pCi/L |
| 19) | LS | 0939335 | 1 | raised | 231 | 3.9 pCi/L |
| | Physical Education Building | | | | | |
| 20) | LS | 0939332 | 1 | slab | Dance Room | 0.3 pCi/L |
| 21) | LS | 0939272 | 1 | slab | Girls Locker | 1.5 pCi/L |
| 22) | LS | 0939320 | 1 | slab | Girls Locker | 1.3 pCi/L |
| 23) | LS | 0939322 | 1 | slab | Equipment | <0.2 pCi/L |
| 24) | LS | 0939328 | 1 | slab | Girls office | 0.4 pCi/L |
| 25) | LS | 0939329 | 1 | slab | Basketball Ct | <0.2 pCi/L |
| 26) | LS | 0939275 | 1 | slab | Weight Room 2 | 0.6 pCi/L |
| 27) | LS | 0939273 | 1 | slab | Weight Room 1 | 0.8 pCi/L |
| 28) | LS | 0939323 | 1 | slab | Boys office | 0.8 pCi/L |
| 29) | LS | 0939319 | 1 | slab | Boys Shower | 0.9 pCi/L |
| 30) | LS | 0939270 | 1 | slab | Boys Locker | 0.9 pCi/L |
| | Home Economics | | | | | |
| 31) | LS | 0939277 | 1 | raised | Faculty Dining | 0.7 pCi/L |
| 32) | LS | 0939337 | 1 | raised | Cafeteria | 0.9 pCi/L |
| 33) | LS | 0939276 | 1 | raised | Kitchen | 2.2 pCi/L |
| 34) | LS | 0939318 | 1 | raised | Blank | <0.2 pCi/L |

## WEATHER CONDITIONS

| Day 1 | Day 1 | Day 2 | Day 3 | Day 4 |
|---|---|---|---|---|
| Current | | | | |
| Wind | 6-14 mph | 7-12mph | | |
| Humidity | 76% | 73% | | |
| Precipitation | 0.00" | 0.00" | | |
| Temp range | 69-77 F | 68-77 F | | |
| Barometric | 29.86" | 29.82" | | |

## OBSERVATION OF STANDARD PROCEDURES & PROTOCALS

**Yes No N/A**

☒ ☐ ☐ All exterior doors and windows were closed upon arrival.
☒ ☐ ☐ Structure was closed for at least 12 hours prior to start of test.
☒ ☐ ☐ Doors and windows were closed at conclusion of test.

Exceptions:Dance room and cafeteria doors were open at retrieval.

☒ ☐ ☐ Test device was placed on lowest level that could be occupied.
☒ ☐ ☐ Sample(s) were collected in the general breathing zone, away from drafts and heat ……..sources, at least 3 feet from exterior doors and windows, one foot from exterior walls, ……at least 20 inches from the floor and no higher than 8 feet.
☒ ☐ ☐ HVAC system off during test period as requested by client.

## Conclusions

On August 6, 2016 AARST/NRPP certified radon technologist ReveAnn Ellrott cert# 100519RT-MFM placed 28 short term and 5 quality control Liquid Scintillation radon sample devices, at the above property in specified locations per clients' request. The devices were retrieved on August 8, 2016.

During a short-term test 2-90 days, to the extent reasonable, all windows, outside vents, and external doors should be kept closed (except for normal entrance and exit) during the testing period. In addition, for tests lasting less than 4 days, closed-building conditions are required for 12 hours prior to the start of the test. Fans, ventilation systems, and air-cooling systems that use outside air and exhaust inside air should not be operated. The school was requested to maintain closed-building conditions and turn the HVAC system off for twelve (12) hours prior to and during the testing.

Samples collected within the complex determined that radon levels were BELOW the EPA action level of 4.0 pCi/L (picocuries per liter of air), within the sampled areas during the sampling period.

## PURPOSE OF THIS INSPECTION REPORT

To provide a professional opinion of a structure's radon levels as of the date of inspection, limited to the conditions identified in this report.

### LIMITATIONS OF LIABILITY

*There can be uncertainty with any radon measurement due to statistical variations and other factors such as changes in the weather, operation of the dwelling and cooperation level of the occupants. While our agents and we make every effort to maintain quality control and include checks and verification steps in our procedures, we make NO WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. Neither Radon Testing Services nor any of its agents shall be liable under any claim, charge or demand, whether in contract, tort, or otherwise, for any and all loss, cost, charge, claim, demand, fee, expense or damage of any nature or kind arising out of, connected with, resulting from, or sustained as a result of any radon test.*

**The building should be retested every 5 years or after any structural modifications, remodeling or changes in ventilation patterns are made, and after any significant earth movement including earthquake, hydraulic fracturing, grading, and heavy rains. Radon mitigation systems should be checked on a regular basis to make sure they are operational.**

Technician: ReveAnn Ellrott Date: August 12, 2016

ReveAnn Ellrott
Radon Technologist. Certification #100519RT

RAdata, Inc.
27 Ironia Road, Unit 2
Flanders, NJ 07836
973-927-7303 Phone 973-927-4980 Fax

California Radon Testing
ReveAnn Ellrott
207 West Los Angeles Avenue, Suite 188
Moorpark, CA 93021

Original Report Date: August 10, 2016
Revised Report Date: August 11, 2016

## Radon Test Results/Information:

***This report has been revised.***

**Name:** San Pedro High School,
FileNum: 16-201-005
**Test Location:** 1001 West 15th Street, San Pedro CA 90731

| Test # | Test Date | Test Device | Location | Avg. Radon Concentration | Date Analyzed |
|---|---|---|---|---|---|
| **Room #: File/Storage** | | | | | |
| 939251-931869 | 8/6/2016,07:45-8/8/2016,07:33 | Liquid Scintillation | First Floor | **< 0.2 pCi/L** | 8/9/2016,22:07 Analyzed by: Nicole Listmeier |
| **Room #: 121** | | | | | |
| 939265-931883 | 8/6/2016,08:20-8/8/2016,07:40 | Liquid Scintillation | First Floor | **2.7 pCi/L** +/- 0.50 | 8/9/2016,22:29 Analyzed by: Nicole Listmeier |
| **Room #: 124** | | | | | |
| 939266-931884 | 8/6/2016,08:25-8/8/2016,07:35 | Liquid Scintillation | First Floor | **0.5 pCi/L** +/- 0.33 | 8/9/2016,22:51 Analyzed by: Nicole Listmeier |
| **Building #: Classroom Room #: 120** | | | | | |
| 939267-931885 | 8/6/2016,08:10-8/8/2016,07:41 | Liquid Scintillation | First Floor | **2.1 pCi/L** +/- 0.46 | 8/9/2016,22:18 Analyzed by: Nicole Listmeier |
| **Room #: Boys Main Locker** | | | | | |
| 939270-931888 | 8/6/2016,09:40-8/8/2016,08:14 | Liquid Scintillation | First Floor | **0.9 pCi/L** +/- 0.38 | 8/10/2016,02:42 Analyzed by: Nicole Listmeier |
| **Building #: Gymnasium Room #: Girls Locker** | | | | | |
| 939272-931890 | 8/6/2016,09:03-8/8/2016,08:05 | Liquid Scintillation | First Floor | **1.5 pCi/L** +/- 0.42 | 8/10/2016,00:52 Analyzed by: Nicole Listmeier |
| **Room #: Weight Room 1** | | | | | |
| 939273-931891 | 8/6/2016,09:30-8/8/2016,08:10 | Liquid Scintillation | First Floor | **0.8 pCi/L** +/- 0.38 | 8/10/2016,02:09 Analyzed by: Nicole Listmeier |
| **Room #: Ceramics Classroom Blank** | | | | | |
| 939274-931892 | 8/6/2016,07:40-8/8/2016,07:32 | Liquid Scintillation | First Floor | **< 0.2 pCi/L** | 8/9/2016,21:56 Analyzed by: Nicole Listmeier |
| **Room #: Weight Room 2** | | | | | |
| 939275-931893 | 8/6/2016,09:25-8/8/2016,08:11 | Liquid Scintillation | First Floor | **0.6 pCi/L** +/- 0.36 | 8/10/2016,01:58 Analyzed by: Nicole Listmeier |
| **Room #: Kitchen** | | | | | |
| 939276-931894 | 8/6/2016,10:00-8/8/2016,08:30 | Liquid Scintillation | First Floor | **2.2 pCi/L** +/- 0.48 | 8/10/2016,03:15 Analyzed by: Nicole Listmeier |
| **Building #: Home Economics Room #: Faculty Dining** | | | | | |
| 939277-931895 | 8/6/2016,09:50-8/8/2016,08:24 | Liquid Scintillation | First Floor | **0.7 pCi/L** +/- 0.37 | 8/10/2016,02:53 Analyzed by: Nicole Listmeier |

| | | | | | |
|---|---|---|---|---|---|
| **Building #: Classroom Room #: 123** | | | | | |
| 939283-<br>931901 | 8/6/2016,08:30-<br>8/8/2016,07:38 | Liquid Scintillation | First Floor | **1.9 pCi/L**<br>+/- 0.45 | 8/9/2016,23:02<br>Analyzed by: Nicole Listmeier |
| **Room #: Photography Classroom** | | | | | |
| 939292-<br>931910 | 8/6/2016,07:35-<br>8/8/2016,07:30 | Liquid Scintillation | First Floor | **< 0.2 pCi/L** | 8/9/2016,21:34<br>Analyzed by: Nicole Listmeier |
| **Room #: 228** | | | | | |
| 939294-<br>931912 | 8/6/2016,08:37-<br>8/8/2016,07:55 | Liquid Scintillation | First Floor | **2.4 pCi/L**<br>+/- 0.48 | 8/10/2016,00:08<br>Analyzed by: Nicole Listmeier |
| **Room #: Kitchen** | | | | | |
| **Blank** | | | | | |
| 939318-<br>931936 | 8/6/2016,10:00-<br>8/8/2016,08:30 | Liquid Scintillation | First Floor | **< 0.2 pCi/L** | 8/10/2016,03:26<br>Analyzed by: Nicole Listmeier |
| **Room #: Boys Showers** | | | | | |
| 939319-<br>931937 | 8/6/2016,09:39-<br>8/8/2016,08:13 | Liquid Scintillation | First Floor | **0.9 pCi/L**<br>+/- 0.38 | 8/10/2016,02:31<br>Analyzed by: Nicole Listmeier |
| **Building #: Gymnasium Room #: Girls Locker** | | | | | |
| **Duplicate of #939272** | | | | | |
| 939320-<br>931938 | 8/6/2016,09:03-<br>8/8/2016,08:05 | Liquid Scintillation | First Floor | **1.3 pCi/L**<br>+/- 0.42 | 8/10/2016,01:03<br>Analyzed by: Nicole Listmeier |
| **Room #: 125** | | | | | |
| 939321-<br>931939 | 8/6/2016,08:30-<br>8/8/2016,07:36 | Liquid Scintillation | First Floor | **2.3 pCi/L**<br>+/- 0.49 | 8/9/2016,23:13<br>Analyzed by: Nicole Listmeier |
| **Room #: Storage** | | | | | |
| 939322-<br>931940 | 8/6/2016,09:05-<br>8/8/2016,08:08 | Liquid Scintillation | First Floor | **< 0.2 pCi/L** | 8/10/2016,01:25<br>Analyzed by: Nicole Listmeier |
| **Room #: Office 1 - Boys** | | | | | |
| 939323-<br>931941 | 8/6/2016,09:34-<br>8/8/2016,08:12 | Liquid Scintillation | First Floor | **0.8 pCi/L**<br>+/- 0.37 | 8/10/2016,02:20<br>Analyzed by: Nicole Listmeier |
| **Room #: 230** | | | | | |
| 939324-<br>931942 | 8/6/2016,08:39-<br>8/8/2016,07:57 | Liquid Scintillation | First Floor | **2.6 pCi/L**<br>+/- 0.50 | 8/10/2016,00:19<br>Analyzed by: Nicole Listmeier |
| **Room #: 229** | | | | | |
| 939325-<br>931943 | 8/6/2016,08:35-<br>8/8/2016,07:56 | Liquid Scintillation | First Floor | **3.4 pCi/L**<br>+/- 0.54 | 8/9/2016,23:57<br>Analyzed by: Nicole Listmeier |
| **Room #: 126** | | | | | |
| **Duplicate of #939336** | | | | | |
| 939326-<br>931944 | 8/6/2016,08:32-<br>8/8/2016,07:50 | Liquid Scintillation | First Floor | **0.9 pCi/L**<br>+/- 0.39 | 8/9/2016,23:24<br>Analyzed by: Nicole Listmeier |
| **Building #: Admin Room #: Photography Lab** | | | | | |
| 939327-<br>931945 | 8/6/2016,07:30-<br>8/8/2016,07:30 | Liquid Scintillation | First Floor | **< 0.2 pCi/L** | 8/9/2016,21:12<br>Analyzed by: Nicole Listmeier |
| **Room #: Office 2 - Girls** | | | | | |
| 939328-<br>931946 | 8/6/2016,09:05-<br>8/8/2016,08:07 | Liquid Scintillation | First Floor | **0.4 pCi/L**<br>+/- 0.34 | 8/10/2016,01:36<br>Analyzed by: Nicole Listmeier |
| **Room #: Basketball Court** | | | | | |
| 939329-<br>931947 | 8/6/2016,09:23-<br>8/8/2016,08:09 | Liquid Scintillation | First Floor | **< 0.2 pCi/L** | 8/10/2016,01:47<br>Analyzed by: Nicole Listmeier |
| **Room #: 122** | | | | | |
| 939330-<br>931948 | 8/6/2016,08:25-<br>8/8/2016,07:37 | Liquid Scintillation | First Floor | **0.9 pCi/L**<br>+/- 0.38 | 8/9/2016,22:40<br>Analyzed by: Nicole Listmeier |

| | | | | | |
|---|---|---|---|---|---|
| **Room #: Ceramics Classroom** | | | | | |
| 939331-<br>931949 | 8/6/2016,07:40-<br>8/8/2016,07:32 | Liquid Scintillation | First Floor | **< 0.2 pCi/L** | 8/9/2016,21:45<br>Analyzed by: Nicole Listmeier |
| **Building #: Gymnasium Room #: Dance** | | | | | |
| 939332-<br>931950 | 8/6/2016,08:53-<br>8/8/2016,08:00 | Liquid Scintillation | First Floor | **0.3 pCi/L**<br>+/- 0.33 | 8/10/2016,00:41<br>Analyzed by: Nicole Listmeier |
| **Room #: 127** | | | | | |
| 939333-<br>931951 | 8/6/2016,08:33-<br>8/8/2016,07:51 | Liquid Scintillation | First Floor | **2.0 pCi/L**<br>+/- 0.47 | 8/9/2016,23:46<br>Analyzed by: Nicole Listmeier |
| **Building #: Admin Room #: Photography Lab** | | | | | |
| **Duplicate of #939327** | | | | | |
| 939334-<br>931952 | 8/6/2016,07:30-<br>8/8/2016,07:30 | Liquid Scintillation | First Floor | **< 0.2 pCi/L** | 8/9/2016,21:23<br>Analyzed by: Nicole Listmeier |
| **Room #: 231** | | | | | |
| 939335-<br>931953 | 8/6/2016,08:41-<br>8/8/2016,07:58 | Liquid Scintillation | First Floor | **3.9 pCi/L**<br>+/- 0.58 | 8/10/2016,00:30<br>Analyzed by: Nicole Listmeier |
| **Room #: 126** | | | | | |
| 939336-<br>931954 | 8/6/2016,08:32-<br>8/8/2016,07:50 | Liquid Scintillation | First Floor | **1.0 pCi/L**<br>+/- 0.38 | 8/9/2016,23:35<br>Analyzed by: Nicole Listmeier |
| **Room #: Cafeteria/Study Hall** | | | | | |
| **Open house conditions present at time of sampling, results may be higher than reported. Conduct another radon test.** | | | | | |
| 939337-<br>931955 | 8/6/2016,10:00-<br>8/8/2016,08:25 | Liquid Scintillation | First Floor | **0.9 pCi/L**<br>+/- 0.39 | 8/10/2016,03:04<br>Analyzed by: Nicole Listmeier |

**The following revisions have been made from the original report: confirmed duplicates**

The results of this measurement provide an idea of the average concentration in the area of the structure tested during this testing period. The actual risk depends upon the amount of time you are exposed to this concentration. The US EPA and the Center of Disease Control have used a continuous exposure level of 4.0 pCi/L as a guidance level at which remedial action is indicated. If you would like additional information on radon, we recommend that you contact either your state agency or the US EPA.

The accuracy of the radon levels determined at the time of sampling are dictated by proper deployment and conditions in the field. Since deployment in the field is not completed by Radata, Inc. laboratory personnel, the radon results indicated represent the levels found in the test device as received at our lab.

Charcoal Canister samples are analyzed by Method [EPA-402-R-92-004 July 92]
Liquid Scintillation samples are analyzed by Method [EPA-402-R-92-004 July 92]
(+/- = 2 sigma (95% confidence level) counting uncertainty reported in pCi/L.)

**LIMITATIONS OF DATA AND PRODUCT LIABILITY**

This product is designed to detect radon levels in a specific location. It can not guarantee the overall level of radon present in a home or building, or that people will not be exposed to potentially harmful levels of radon. The cost of this product is based solely on the value of the monitoring, and is unrelated to the value of any customers' property or health. RAdata, Inc. EXPRESSLY DISCLAIMS ALL LIABILITY FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO DAMAGES RESULTING FROM THE IMPROPER USE OF THE PRODUCT OR THE IMPROPER INTERPRETATION OF THE DATA GENERATED BY THE PRODUCT. RAdata's AND ITS AGENT'S SOLE AND EXCLUSIVE LIABILITY AND THE CUSTOMER'S SOLE LIABILITY AND EXCLUSIVE REMEDY WILL NOT EXCEED THE LESSER OF THE COST OF REPAIR OR REPLACEMENT OF THE PRODUCT. Neither RAdata, Inc. nor its agents accepts any liability for improper deployment of any device and shall not be responsible for the consequences of the results derived from same.

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Timothy P. Kroder

Timothy P. Kroder, Laboratory Director

# Appendix F
# Community Notices of Work

# Los Angeles Unified School District

## Office of Environmental Health and Safety

**MICHELLE KING**
*Superintendent of Schools*

**THELMA MELÉNDEZ, PH.D.**
*Chief Executive Officer, Office of Educational Services*

**ROBERT LAUGHTON**
*Director, Environmental Health and Safety*

**CARLOS A. TORRES**
*Deputy Director, Environmental Health and Safety*

July 22, 2016

TO: Neighbors and Community Members of the San Pedro High School

FROM: Los Angeles Unified School District
Office of Environmental Health and Safety

REGARDING: Preliminary Environmental Assessment
San Pedro High School, Los Angeles, California

The Los Angeles Unified School District (LAUSD) - Office of Environmental Health and Safety (OEHS) would like to provide you with advance notice of a Preliminary Environmental Assessment (PEA) that will be conducted within the boundaries of San Pedro High School, located at 1001 West 15th Street, San Pedro, California, 90731. The PEA will cover most of the campus scheduled to undergo a comprehensive modernization.

A licensed contractor, working on behalf of LAUSD, will perform the environmental investigation under the independent oversight of the LAUSD-OEHS, which is independent from the LAUSD Facilities Services Division (The Facilities Services Division is the responsible Branch for the development and construction of the project). The environmental investigation will consist of the sampling of soil and air in the locations on campus where existing buildings will be demolished, new buildings will be constructed, existing buildings undergoing modernization, and where a former clarifier was previously located. Soil will be analyzed for potential residual arsenic, hydrocarbons, lead-based paint, polychlorinated biphenyls (PCBs), organochlorine pesticides (OCPs), and volatile organic compounds (VOCs) in soil. If necessary, a soil cleanup will be performed prior to construction activities to protect students, faculty, and staff. Air samples will be collected in the buildings undergoing modernization for radon gas. If necessary, steps will be taken during the modernization process to reduce indoor radon gas levels.

Fieldwork is scheduled to begin on July 30, 2016, and is expected to be completed in 5 days. All fieldwork is scheduled to be conducted when students are away from school, between 7:00 am and 5:00 pm.

The results of the investigation will be submitted to LAUSD-OEHS in a report for review. The report will include an assessment of whether any of the above listed compounds are present in soil at concentrations that would require further assessment or a response action before the Site is cleared for construction activities. When the OEHS's review is complete, OEHS will issue a determination with regard to the assessment.

If you have any questions concerning the upcoming environmental investigation or other related activities for the proposed comprehensive modernization of San Pedro High School, please contact Dane Robinson, LAUSD Office of Environmental Health and Safety Site Assessment Project Manager, at (213) 241-4122 (email at dane.robinson@lausd.net).

*Si desea información en Español comuníquese con Fortunato Tapia en FSD Relaciones con la Comunidad al (213) 241-1326 (línea directa) o (213) 241-1338 (línea principal) o por correo electrónico a fortunato.tapia@lausd.net.*

# Distrito Escolar Unificado de Los Angeles

## Oficina de Salud y Seguridad Medioambiental

**MICHELLE KING**
*Superintendente Escolar*

**THELMA MELÉNDEZ, PH.D.**
*Jefe Ejecutivo, Oficina de Servicios Educacionales*

**ROBERT LAUGHTON**
*Director, Salud y Seguridad Medioambiental*

**CARLOS A. TORRES**
*Director Adjunto, Salud y Seguridad Medioambiental*

22 de julio de 2016

PARA: Vecinos y Miembros de la Comunidad de
San Pedro High School

DE: Los Angeles Unified School District
Oficina de Salud y Seguridad Medioambiental

REGARDING: Estudio Inicial de Sitio
San Pedro High School, Los Angeles, California

La Oficina de Salud y Seguridad Medioambiental (OEHS, por sus siglas en inglés) del Distrito Escolar Unificado de Los Ángeles (LAUSD, por sus siglas en inglés) le notifica con anticipación de un Estudio Inicial de Sitio (PEA,por sus siglas en inglés) que se llevará a cabo para el proyecto de construcción en *San Pedro High School,* ubicada en el 1001 West 15th Street, San Pedro, California, 90731 ("Sitio"). La PEA se llevará a cabo en la mayoría parte del campo programado para someterse a una modernización integral.

Un contratista con licencia, trabajando en nombre de LAUSD, llevará a cabo la investigación bajo la supervisión independiente del LAUSD-OEHS, que es independiente de la división de servicios de instalaciones de LAUSD (La división de servicios de instalaciones es la rama responsable para el desarrollo y construcción del proyecto). La investigación ambiental consistirá en la toma de muestras de tierra y vapores de tierra en los lugares en el campus donde edificios existentes será demolidos, nuevos edificios serán construídos, y en lugares donde tanques de almacenamiento subterráneo y un incinerador se encontraban anteriormente. El suelo será analizado para el potencial de arsénico residual, hidrocarburos, pintura a base de plomo, bifenilos policlorados (PCBs), plaguicidas organoclorados (OCPs) y de compuestos orgánicos volátiles (VOCs) en el suelo. Si es necesario, se realizará una limpieza de tierra antes de las actividades de construcción para proteger a los estudiantes, facultad y personal. Muestras de aire interior serán analizadas para la presencia de radón en los edificios que serán modernizados.

El trabajo de campo está programado a comenzar el 30 de julio del 2016 y se anticipa que durará cinco dias. Este trabajo se llevará a cabo cuando los estudiantes no estén en la escuela, entre 7 a.m. y 5 p.m.

Resultados de la investigación serán presentados a LAUSD-OEHS para su revisión. El reporte indicará si alguno de los compuestos analizados esta presente en el suelo en concentraciones que requieran estudios más intensivos o alguna acción en respuesta antes de que la propiedad sea aprobada para actividades de construcción. OEHS revisará el reporte en su totalidad y hará una determinación con respecto al estudio preliminar.

Si tiene alguna pregunta sobre esta investigación u otras actividades relacionadas con la modernización de San Pedro High School, puede comunicarse con Fortunato Tapia en FSD Relaciones con la Comunidad al (213) 241-1326 (línea directa) o (213) 241-1338 (línea principal) o por correo electrónico a fortunato.tapia@lausd.net o puede comunicarse con Dane Robinson, gerente de proyecto en LAUSD-OEHS, al (213) 241-4122, o por email a dane.robinson@lausd.net.

# Appendix F
## Environmental Assessments

ESA

# F-1 Phase I Environmental Site Assessment

# PHASE I ENVIRONMENTAL SITE ASSESSMENT
# San Pedro High School
# 1001 W 15th Street
# San Pedro, California 90731




*Submitted to*
*Los Angeles Unified School District*
*Office of Environmental Health and Safety*

*LAUSD Work Authorization Number: E-308102-1CSC*

*Prepared by*
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CSC Project Number: 4007573

*June 7, 2016*

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# PHASE I ENVIRONMENTAL SITE ASSESSMENT
# San Pedro High School
# APN 7458-024-918
# 1001 W 15th Street
# San Pedro, California 90731

## 1.0 SUMMARY

Clark Seif Clark, Inc. ("CSC") performed a Phase I Environmental Site Assessment in general conformance with the scope and limitations of the American Society for Testing and Materials ("ASTM") "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process", E 1527-13 ("Phase I ESA"), for the facility identified as San Pedro High School ("Subject Property"). Figure 1 is a location map, Figure 2 is the Assessor's Map and Figure 3 is a detailed campus map. Photographs of the Subject Property are presented in Appendix A.

The goal of a Phase I Environmental Site Assessment is to identify the presence of recognized environmental conditions. The term recognized environmental condition ("REC") means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater or surface water of the property. The term includes *hazardous substances* and *petroleum products* even under conditions in compliance with laws.

In addition, the objective for this Phase I ESA is to provide background information in support of planned demolition and seismic retrofitting projects.

The on-site inspection, historical information and government agency review of the Subject Property **has revealed evidence** of a REC in connection with the Subject Property. There is a clarifier associated with the operation of an auto shop program conducted in the parking area

facing South Leland Street for one of the buildings scheduled for demolition. Further investigation of the soil in the location of the clarifier is warranted.

The on-site inspection, historical information and government agency review of the Subject Property **has not revealed evidence** of corrected RECs ("CRECS") and/or historic RECs ("HRECs") in connection with the Subject Property. Several items of concern have been identified. See Section 9.0 *Opinions* of this report for a more thorough discussion of the results of this assessment with regards to the Subject Property.

CSC performed another component of LAUSD's environmental site assessment process by researching and completing a School Site Environmental Screening Criteria Checklist (Appendix H). This checklist was developed to acquire information regarding safety issues that are of specific concern to LAUSD. These interests include geologic hazards and the proximity of the Subject Property to potential hazardous activities (*e.g.*, fuel pipelines, water utility pipelines, airports, rail lines, high voltage power lines, major roadways, hazardous materials disposal facilities, etc.). There were no checklist safety issues identified as of the date of this report.

## 1.1 Current Property Description

The Subject Property is situated on an irregularly shaped-parcel (APN 7458-024-918). Title is vested in the Los Angeles Unified School District ("LAUSD"). The planned project area ("Academic Campus") is bounded by West 15th Street on the north, West 17th Street on the south, athletic buildings and infrastructure to the east and South Leland Street on the west. The easterly portion (parking and athletic infrastructure) is bounded by West 14th Street on the north, West 17th Street on the south, the Dana Middle School Campus on the east and the Academic Campus on the west.

The San Pedro High School campus consists of a cluster of 10 permanent structures used primarily for classrooms, offices, gymnasiums, auditorium and cafeteria on an approximately 23-acre lot

(Google Earth ruler). There are nine portable classrooms and a concrete block storage bunker for flammable liquids. A baseball field, football field, softball field and parking lot are located on the eastern portion of the Subject Property between West 14th Street on the north and West 17th Street on the south. A current site map is provided as Figure 3. Photographs of the Subject Property are presented in Appendix A.

## 1.2 Historical Property Summary

The general area in which the Subject Property is located was depicted as being undeveloped on the 1896 topographic map. The first indication of development on the Subject Property is evident on the 1923 and 1925 topographic maps, which depict a residential-sized structure facing 15th Street and approximately eight residential-sized structures facing 17th Street. There also appears to be two small structures on the south central area. 18th Street, 14th Street, Meyer Street [*sic*], and Alma Street are evident on the 1923 and 1925 topographic maps. Prior to that time, the Subject Property and surrounding area were undeveloped.

The land for development of the current San Pedro High School Campus was acquired beginning in 1934 and ending in 1969 (*EDR Environmental Lien and Activities and Use Limitations Report).* Most of the developed parcels were single-family residences. It appears that the large undeveloped parcels were purchased from two utilities: Board of Water and Power Commissioners of the City of Los Angeles (1939) and Southern Counties Gas Company of California (1953). The Subject Property is currently occupied by a Los Angeles Unified School District ("LAUSD") high school that was constructed sometime after August 1935.

## 1.3 Off-Site Summary

Scattered residential development in the general area is evident beginning in the early to mid-1920s.

The surrounding area is primarily residential in the northern, western, and southern directions. Dana Middle School is located adjacent to the east and fronts on South Cabrillo Avenue. There are no industrial sites within one-half mile of the Subject Property. The closest commercial corridor is located approximately 0.2 of a mile to the east along South Gaffey Street.

Thirteen facilities within one-half mile of the Subject Property were evaluated based on the EDR Radius Report listings. None of these sites are of current environmental concern. See Section 5.0 entitled *Regulatory Agency Information* and Section 8.2 entitled *Nearby Properties* for an assessment of the potential impacts of these facilities on the Subject Property.

CSC is of the opinion that a vapor encroachment condition ("VEC") due to a release from nearby properties is unlikely to exist due to site-specific conditions. See Section 8.3 entitled *Tier 1 Vapor Encroachment Screen* for a more thorough discussion.

## 1.4 Conclusions and Recommendations

The inspection of the Subject Property did not reveal any indications of spills or releases of hazardous substances, *i.e.*, no stained areas indicating mishandling of hazardous materials. No distressed vegetation was observed. The site reconnaissance did not identify evidence of pits, ponds, lagoons or oil wells on the Subject Property.

No data gaps in historical information were identified that would materially affect the opinions and conclusions expressed in this report.

### 1.4.1 Subject Property

There is a clarifier associated with the operation of an auto shop that was located in one of the building scheduled for demolition. The presence of a clarifier is a REC. Further investigation of the soil in the location of the clarifier is warranted.

No CRECs or HRECs as defined in the ASTM E 1527-13 Standard are known to be present on the Subject Property as of the date of this report. There are several items of concern associated with the Subject Property. Based on the possibility of historic use of termiticides, herbicides including arsenic, pesticides, PCBs in caulking and lead-based paint, CSC recommends that surficial soils be sampled. At a minimum, 10% of the samples should be analyzed for PCBs.

CSC further recommends that:

- Mitigation measures for radon intrusion should be implemented. Surveys previously conducted by LAUSD confirmed its presence. This finding is an indoor air quality concern.

- The decommissioned DWP transformers in the vault in the basement of the administration building should be removed prior to initiation of seismic retrofitting. Transformer oil and stained concrete in the storage area should be sampled and tested for PCBs.

- In addition, CSC recommends that all structures for demolition be surveyed for the presence of asbestos, lead-based paint, chlorofluoro hydrocarbon refrigerants and building materials such as switches and air conditioning units that typically contain hazardous materials that are classified as Universal Wastes.

The Tier 1 VES revealed that a VEC resulting from a release of volatile organic compounds on the Subject Property can be ruled out due to site-specific conditions. See Section 8.3 entitled *Tier 1 Vapor Encroachment Screen* and Section 9.3 entitled *Vapor Encroachment Conditions* of this report for a more thorough discussion.

### 1.4.2 Nearby Properties

This Phase I Environmental Assessment has not revealed any current, historic or controlled Recognized Environmental Condition ("REC") that are of current environmental concern present on any of the properties located within one-eighth mile of the Subject Property.

# 2.0 INTRODUCTION

## 2.1 Objective

The purpose of the assessment is to identify potential environmental concerns resulting from current and previous uses of the Subject Property and adjoining properties in general accordance with the requirements of ASTM Standard E1527-13 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. A second component of LAUSD's environmental site assessment process is completion of the *School Site Environmental Screening Criteria Checklist*, which was developed to acquire information regarding safety issues that are of specific concern to LAUSD during the preparation of California Environmental Quality Act ("CEQA") documents, *i.e.,* environmental impact reports and negative declarations. These CEQA-related safety interests include geologic hazards and the proximity of the Subject Property to potential hazardous activities (*e.g.*, fuel pipelines, water utility pipelines, airports, rail lines, high voltage power lines, major roadways, hazardous materials disposal facilities, etc.).

## 2.2 Scope of Services

In conducting the Phase I ESA for LAUSD, CSC performed the following activities in accordance with the contracted scope of services:

**Site Reconnaissance:** CSC conducted a visual survey of the Subject Property to verify, to the extent possible, current uses and improvements of the Subject Property, past uses of the Subject Property, current uses of adjacent properties, and evidence of existing and historical hazardous material use, disposal, storage, and releases on the Subject Property and/or adjacent properties. CSC documented the Subject Property reconnaissance with field notes and digital camera photographs (Appendix A).

**Historical Review:** CSC conducted a historical review to evaluate the past and present use of the Subject Property. This included an examination of aerial photographs (Appendix B), Sanborn

Fire Insurance Maps (Appendix C), historical topographic maps (Appendix D), City Directory Abstracts (Appendix F), and building department permits (Appendix G) to discover or verify previous environmental activities that may have impacted the Subject Property.

**Regulatory Agency Review:** CSC evaluated available agency records, including information provided in the EDR Radius Map Report with GeoCheck (Appendix E) to assess any hazardous material use, storage, releases, or remediation at the Subject Property and/or surrounding properties. Supplemental documentation is provided in Appendix K.

**Property Permits of Environmental Interest:** CSC reviewed South Coast Air Quality Management District permits as part of the historical and current use assessment for the Subject Property and adjoining properties that may have the potential to impact the Subject Property (Appendix K).

**Local Agency File Review:** In addition, CSC requested agency file reviews of any pertinent documents from the California State Fire Marshal ("CSFM"), Los Angeles County Department of Public Works Sanitation Bureau, City of Los Angeles Department of Water and Power, the Office of Environmental Health Hazard Assessment ("OEHHA"), and the Environmental Protection Agency ("USEPA") regarding the Subject Property in accordance with the Environmental School Site Screening Criteria Check List.

**Property Issues:** CSC assessed the on-site presence, if any, of current and historical hazardous material handling, use, storage, and releases, including storm water and wastewater management.

**Physical Setting:** CSC assessed the regional geology, regional hydrogeology, and topographic setting of the Subject Property based on information provided by the United States Geological Survey ("USGS"), the California Department of Conservation Division of Mines and Geology ("DMG"), and the California Department of Conservation Division of Oil, Gas, and Geothermal Resources ("DOGGR").

**LAUSD Checklist:** *CSC* completed the *School Site Environmental Screening Criteria Checklist* (Appendix H) for CEQA-related issues of concern by contacting applicable agencies or utility companies and online database sources.

**Off-Site Issues:** CSC observed the adjoining properties from public right-of-ways to determine if there were any indications of hazardous materials use, storage or waste handling and any visible signs of releases and spills.

**Supplemental Database Review:** CSC reviewed published governmental agency databases identified by EDR to identify facilities within ASTM-specified radii of the Subject Property with a reported environmental incident or concern or any environmental liens and activities and use limitations (Appendix K).

**Report Preparation:** CSC has presented its findings, opinions, and conclusions with supporting documentation in the Appendices of this Phase I ESA Report.

## 2.3 Significant Assumptions

Based on Los Angeles County Assessor parcel information, Sanborn Fire Insurance map review, and Subject Property reconnaissance, one of the significant assumptions made was that the current and any historical addresses associated with the Subject Property fell within a single street address: 1001 West 15th Street, San Pedro, California 90731.

Facilities within one-eighth mile of the Subject Properties are assumed the most likely to have the greatest potential for any RECs that would impact the Subject Properties. However, facilities within one-half mile of the Subject Property were evaluated and reported in Section 8.0 entitled *Findings* to ensure that any operations with hazardous air emissions were considered in evaluating potential offsite impacts and the potential for a VEC.

The database search results of interest in conducting a Tier 1 Vapor Encroachment Screen ("Tier 1 VES") in accordance with ASTM E 2600-10 are:

- Federal NPL site list
- Federal CERCLIS list
- Federal RCRA CORRACTS facilities list
- Federal RCRA non-CORRACTS TSD facilities list
- Federal RCRA generators list (Subject Property only)
- Federal institutional control/engineering control registries (Subject Property only)
- Federal ERNS list (Subject Property only)
- State and tribal lists of hazardous waste sites identified for investigation or remediation, *i.e.,* ENVIROSTOR, SLIC, landfill and/or solid waste disposal site lists, leaking storage
- Tank lists ("LUST"), registered storage tank lists (Subject Property only), institutional control/engineering control registries (Subject Property only), voluntary cleanup sites and Brownfield sites
- Historic Automobile Service Stations
- Historic Dry Cleaning Facilities
- Historic Manufactured Gas Plants

## 2.4 Limitations and Exceptions

As discussed in ASTM Standard Practice E 1527-13, no Phase I ESA can completely eliminate uncertainty regarding the potential for RECs in connection with a site. This investigation is simply intended to reduce uncertainty within reasonable limits of time and cost.

CSC is dutiful and diligent in its requests for information. However, government agency records are obtained through a formal request procedure using site-specific information (*i.e.*, usually the

street address) provided to CSC. Files are sometimes misfiled, misplaced or mislabeled. CSC cannot warrant or guarantee the accuracy of the government agency's efforts. CSC assumes that the search was reliably performed and accurately completed by the government agency.

The observations in the Phase I ESA can be found in Section 6.0 entitled *Site Issues* and are based on conditions readily observable during the site reconnaissance. These observations are typically unable to identify undocumented conditions of subsurface soil, groundwater contamination, or the presence of underground tanks at the subject or surrounding properties, unless specifically mentioned. The Phase I ESA is not intended to determine the actual presence, or degree or extent of contamination, if any, at the Subject Property.

The information contained in this Phase I ESA report has received appropriate technical review and approval. The conclusions represent professional judgments and are based upon the findings of the investigations identified in the report and the interpretation of such data based on our experience and expertise according to the existing standard of care. No other warranty or limitation exists, either expressed or implied.

## 2.5 Special Terms and Conditions

Location data for nearby sites (*i.e.,* sites less than one-half mile from the Subject Property) contained in the Map Findings section of the attached Environmental Data Resources ("EDR") report. The EDR Radius Map with GeoCheck® Report (Appendix E) is geocoded using information obtained from a variety of public and other sources which may or may not be accurate.

## 2.6 User Reliance

This report was prepared for the exclusive use and benefit of LAUSD. Neither this report nor any information contained in this report may be relied upon by any other party without the prior express written consent of LAUSD.

This report is intended to be reviewed and used in its entirety. No excerpts may be taken to be representative of the complete findings of this environmental assessment. Other parties reviewing this Phase I ESA report should engage a qualified environmental professional to assist them in understanding the environmental conditions at the site and the qualifications required for the innocent landowner defense to liability under CERCLA.

Whether a vapor intrusion condition exists at the Subject Property as a result of soil vapor migration to the subsurface from a nearby facility is a separate determination to be made by an environmental professional. Investigation and evaluation of a vapor intrusion condition is outside the scope of ASTM E1527-13 and ASTM E 2600-10.

# 3.0 PROPERTY DESCRIPTION

## 3.1 Location and Legal Descriptions

The Subject Property is situated on an irregularly shaped-parcel. Title is vested in LAUSD. The planned project area ("Academic Campus") is bounded by West 15th Street on the north, West 17th Street on the south, athletic buildings and infrastructure to the east and South Leland Street on the West. The easterly portion (parking and athletic infrastructure) is bounded by West 14th Street on the north, West 17th Street on the south, the Dana Middle School Campus on the east and the Academic Campus on the west.

***Table 1: Location and Legal Description Summary Table***

| Current Address | Assessor Parcel Number | Property Type | Associated Historic Addresses |
|---|---|---|---|
| 1001 W 15th Street | 7458-024-918 | Existing LAUSD School Site | See Environmental Lien Report |

The legal description provided in the EDR Lien Report (Appendix K) is "All that certain piece or parcel of land being Lot 1 of Tract No. 23794, as filed in Book 827, Pages 60-61, situate and lying in the County of Los Angeles, State of California."

## 3.2 Description of Property Features

The San Pedro High School campus consists of a cluster of 10 permanent structures used primarily for classrooms, offices, gymnasiums, auditorium and cafeteria on an approximately 23-acre lot (Google Earth ruler). There are nine portable classrooms and a concrete block storage bunker for flammable liquids. A baseball field, football field, softball field and parking lot are located on the eastern portion of the Subject Property between West 14th Street on the north and West 17th Street on the south. A current site map is provided as Figure 3. Photographs of the Subject Property are presented in Appendix A.

## 3.3 Current Uses of the Property

### 3.3.1 Methodology

The on-site inspection of the Subject Property and surrounding area was conducted on April 27, 2016 by Ms. Joan Greenwood and Ms. Natalia Guerra of CSC. Ms. Greenwood conducted a supplemental on-site inspection on June 2, 2016 to confirm that presence of a clarifier.

### 3.3.2 Observations

The inspection of the Subject Property did not reveal any indications of spills or releases of hazardous substances, *i.e.*, no stained areas indicating mishandling of hazardous substances. No distressed vegetation was observed. The site reconnaissance did not identify evidence of pits, ponds, lagoons or oil wells on the Subject Property. A clarifier was found in the parking area on the western side of the Industrial Arts building. Due to the presence of parked cars, a visual evaluation of the clarifier condition was not possible.

### 3.3.3 Current Use Assessment and Planned Development Options

CSC was provided with a site map (Figure 3) that identified the current use of each building, the date of construction and the planned development options).

***Table 2: Summary of Current Use and Planned Development Options***

| Current Use | AB 300 Designated | Historic Designation | Year Constructed | Planned Development |
|---|---|---|---|---|
| 1. Industrial Arts Building | Yes | Tertiary | 1936 | Demolition and Potential Re-Build |
| 2. Admin/Classroom | Yes | Primary | 1937 | Seismic Retrofit and Modernization |
| 3. Home Econ | Yes | Primary | 1937 | Seismic Retrofit and Modernization |
| 4. Auditorium | No | Primary | 1937 | None |
| 5. PE Building | Yes | Primary | 1938 | Seismic Retrofit Only |
| 6. Classroom Building 1 | No | Primary | 1939 | Seismic Retrofit and Modernization |
| 7. Girls Gymnasium | No | None Indicated | 1961 | None Indicated |
| 8. Classroom Building 2 | No | None Indicated | 1964 | None |
| 9. Shop Building | Yes | None Indicated | 1971 | Demolition and Potential Re-Build |
| 10. Gymnasium | No | None Indicated | 2008 | None Indicated |
| 11. Flammables Storage Bunker | No | None Indicated | Not Indicated | Demolition |
| 12. Portable Classrooms | No | None Indicated | Not Indicated | See Below |
| NW Corner (5) | | | | Demolition and Potential Re-Build |
| Central Quad (3) | | | | Demolition |
| West of Shop Bldg. (1) | | | | Demolition |

## 3.4 Current Uses of Surrounding Properties

The surrounding area is primarily residential in the northern, western, and southern directions. Dana Middle School is located adjacent to the east. There are no industrial sites within one-half mile of the Subject Property. The closest commercial corridor is located approximately 0.2 miles to the east along South Gaffey Street.

## 3.5 Topographic Setting

### 3.5.1 General Site Setting

According to the EDR Geophysical Setting Report, the Subject Property is at an elevation of approximately 180 feet above sea level. Subject Property topography is uneven with a slight general gradient to the east northeast.

### 3.5.2 Nearest Surface Water Body

There are no inland surface water bodies within one mile of the Subject Property (EDR, 2016). The closest major water body is located in Averille Park. It is located approximately one-half mile northwest of the Subject Property (Google Earth ruler).

### 3.5.3 Nearest Location of Ecological Interest

Two nearby locations of ecological interest were identified with reference to the Subject Property. These locations are the Palos Verdes Peninsula and Coastline and Harbor Lake Regional Park. The approximate closest location, located 3.25 miles north northeast from the Subject Property, is Harbor Lake Regional Park (Google Earth ruler).
(http://planning.lacounty.gov/assets/upl/project/gp_2035_2014-FIG_9-3_significant_ecological_areas.pdf)

## 3.6 Regional Geology

### 3.6.1 Geologic Setting

According to the EDR Geophysical Setting Report, the Subject Property lies in an area where the general geologic formation is of the Cenozoic era, Tertiary system, Eocene series. The dominant soil composition in the general area of the Subject Property is of the Calleguas series with a clay loam texture within the top 16 inches. This soil group is classified as Class D with very low infiltration rates. The soil drainage class is described as well drained and does not meet the

requirements for a hydric soil. The corrosion potential for uncoated steels in this type of soil is listed as high. The depth to bedrock is approximated to be between 8 and 20 inches.

### 3.6.2 Nearest Special Study (Alquist-Priolo Act) Zone

Alquist-Priolo Earthquake Fault Zones are regulatory zones that encompass surface traces of active faults that have a potential for future surface fault ruptures that would impact existing or future structures. The nearest fault is approximately 1.5 miles away (Palos Verdes Fault Zone) in the Transverse Ranges and Los Angeles Basin region. This is not an Alquist-Priolo Earthquake Fault Zone. (http://zimas.lacity.org).

### 3.6.3 Potential for Liquefaction and Landslides

The Subject Property is not within a mapped zone of potential liquefaction or landslide hazard that may be triggered by seismic events according to the City of Los Angeles Zoning Department (http://zimas.lacity.org).

### 3.6.4 Potential for Flooding

The Subject Property is located within one quarter of a mile of a small 500-year flood zone (EDR, 2016).

### 3.6.5 Radon

CSC reviewed the Department of Health Services ("DHS") Radon Database for California (DHS, 2016), which compiles radon test data for buildings throughout the state. The database information is organized by zip code, as specific location information is proprietary and not provided to the general public. For the zip code 90731, the California Indoor Radon Test Results showed that number of tests reported to CDPH were 61, with 7 tests at or above 4 pCi/L and a maximum result of 39.2 pCi/L.

(http://www.cdph.ca.gov/HealthInfo/environhealth/Documents/Radon/RnReport02262016.pdf)

According to the EDR Geophysical Setting Report test data were found for the zip code 90731, the zip code of the Subject Property. The reported radon levels for 5 out of 51 tests conducted in this zip code is more than 4 pCi/L, thereby, indicating that radon may be a concern at the Subject Property. The Federal Radon Zone for Los Angeles County is Zone 2 which indicates that indoor average levels range from ≥ 2 pCi/L and ≤ 4 pCi/L.

Radon Surveys conducted in 1990 and 2016 at San Pedro High School confirmed that the campus is moderately impacted by radon. Implementation of appropriate mitigation measures is highly recommended as part of the planned project.

### 3.6.6 Methane

The Subject Property is not within or adjacent to a City of Los Angeles Methane or Methane Buffer Zone. The nearest methane buffer zone appears to be located approximately one mile northwest and one mile south of the Subject Property (http://navigatela.lacity.org/index01.cfm).

## 3.7 Regional Hydrogeology

### 3.7.1 Hydrogeologic Setting

Groundwater flow direction is southeast towards the Pacific Ocean. Approximate measured depth to water is 15 to 16 feet. The nearest hydrogeological information comes from a site one-half to one mile east of the Subject Property where there are four aquifers: the semi-perched; Gage; Lynwood; and the Silverado. The unconfined semi-perched and underlying Gage aquifers are separated by the Bellflower aquiclude (EDR GeoCheck Report, 2016).

### 3.7.2 Groundwater Well Information

There are no active groundwater wells within one mile of the Subject Property (EDR, 2016). According to the Los Angeles County Department of Public Works website (http://dpw.lacounty.gov/general/wells), there is an active well approximately four miles (Google Earth ruler) to the northeast of the Subject Property in the vicinity of East E Street and Alameda Street (Well #352B). The depth to groundwater at Well 5958B was reported to be 1.80 feet below ground surface on October 9, 2008.

### 3.7.3 Nearest Groundwater Production Well

No public water supply wells were reported by EDR within the one-mile search radius.

## 4.0 HISTORICAL REVIEW

Historical aerial photographs (Appendix B) were reviewed to assist in identifying any past practices or structures which may have negatively impacted the Subject Property. EDR's Aerial Photo Decade Package (EDR Inquiry No. 4583327.12) containing photographs dated 1928, 1947, 1953, 1963, 1977, 1981, 1983, 1989, 1990, 1994, 2002, 2005, 2009, 2010 and 2012 were reviewed. No aerials were available for review from 1928-1946.

Sanborn Fire Insurance Maps are detailed scale drawings showing the location, materials of construction and use of buildings and structures. Sanborn maps can provide information that is unavailable from other sources regarding the development and uses of a property, including identification of petroleum products and hazardous materials storage areas. Beginning in 1867, Sanborn maps were produced for many of the major urban and industrialized areas of the U.S. EDR reported (Appendix C) that there are Sanborn maps available for the Subject Property and surrounding properties (Inquiry No. 4583327.3) dated 1921, 1950, and 1969 and were reviewed as part of this assessment.

The 1921 Sanborn Map depicts several dwellings facing 17th Street. There is one dwelling on the north central area of the Subject Property near 15th Street. There are two other small structures east of this dwelling. The 1950 Sanborn Map indicated that there are six structures on the campus and that the surrounding area is fully developed with residential structures. The 1969 Sanborn Map depicts seven structures on the campus.

EDR's Historic Topographic Map collection (Appendix D) was reviewed for coverage of the Subject Properties (EDR Inquiry No. 4583327.4). Maps were reviewed for 1896, 1923, 1925, 1944, 1951, 1964, 1972, 1981 and 2012. No topographic maps were available for review from 1925 through 1943.

City directory listings (Appendix G) for the Subject Property and surrounding properties were compiled by EDR (Inquiry No. 4583327.5) and reviewed as part of this assessment. The first telephone listing for the Subject Property is in 1950 for San Pedro High School. The first telephone listing for nearby properties dates back to 1924 and appear to be predominately residential telephone numbers.

## 4.1 Summary of Historical Review Findings

***Table 3: Summary of Historical Findings***

| Date / Scale | Description | Source |
|---|---|---|
| 1896<br>1" = 62,500 | Subject Property and Adjoining Area: Undeveloped. The general area of the Subject Property and adjoining properties is labeled as *San Pedro.* | Topographic Map |

| Date / Scale | Description | Source |
|---|---|---|
| 1921 | Subject Property and Adjoining Area: Several dwellings are depicted facing 17th Street. There is a dwelling and two small structures on the north central portion of the Subject Property. | Sanborn Map |
| 1923<br>1" = 24,000 | Subject Property and Adjoining Area: Subject Property and adjoining areas are partially developed with some structures depicted. Alma Street, Meyer Street [*sic*], 18th Street, and 14th Street are shown. | Topographic Map |
| 1924 | Subject Property and Adjoining Area: There are no listings for the Subject Property. There are several listings for the opposite side of West 15th from the Subject Property. | City Directory |
| 1925<br>1"= 24,000' | Subject Property and Adjoining Area: Two major buildings and ten minor buildings are illustrated at the Subject Property. Adjoining areas depict several small structures, most likely residential dwellings. Surrounding area is partially developed. 18th Street, Meyler Street, and Leland Street and shown on the map. | Topographic Map |
| 1928<br>1"= 500' | Subject Property and Adjoining Area: Two large buildings and multiple minor buildings are shown on the Subject Property between West 17th and mid-way West 15th street from north to south and South Alma Street and South Meyler Street from east to west. The Subject Property between West 17th and mid-way West 15th street, from north to south, and South Leland Street and South Alma Street, from east to west, is mostly a vacant lot with a few minor structures on the south and southeast end. A residential area and some vacant lots occupy the north northeast of the Subject Property between West 14th and mid-way West 15th street and South Alma Street and South Meyler Street. An open field is visible on the Subject Property. Adjoining easterly property, RH Dana Jr. HS is depicted and has one main building to the east, multiple minor buildings in the center; there is a cluster of minor buildings on the south southeast of the Jr. HS with the remaining property as a vacant field. All other adjoining areas are partially developed residential with several scattered vacant lots. | Aerial Photograph |

| Date / Scale | Description | Source |
|---|---|---|
| 1934 | Subject Property: Los Angeles City High School District of Los Angeles County received Title from: Louis M. Sepulveda and Myrtle R. Sepulveda, husband and wife. | Environmental Lien Report |
| 1935 | Subject Property: Building permits for two high school buildings were issued | Building Permit |
| 1939 | Subject Property: Los Angeles City High School District of Los Angeles County received Title from Board of Water and Power Commissioners of the City of Los Angeles | Environmental Lien Report |
| 1944<br>1"= 62,500' | Subject Property and Adjoining Area: Subject Property and adjoining areas are developed but no buildings are visible. A school building symbol is shown on the map at the Subject Property. 18th Street and Meyler Street can be seen on the map. | Topographic Map |
| 1947<br>1"= 500' | Subject Property and Adjoining Area: San Pedro High School is depicted with a playing field and three major buildings occupying the property between West 17th and mid-way West 15th street, from north to south, and South Alma Street and South Meyler Street from east to west. The Subject Property between West 17th and mid-way West 15th street, from north to south, and South Leland Street and South Alma Street, from east to west, is fully developed with multiple major and minor buildings. A fully residential area occupies the north northeast of the Subject Property between West 14th and mid-way West 15th street and South Alma Street and South Meyler Street. Adjoining RH Dana Jr. HS has increased the number of major and minor buildings. All other adjoining properties are residential with scattered vacant lots. | Aerial Photograph |
| 1950 | Subject Property and Adjoining Area: There are six structures on the Subject Property and the surrounding area is fully developed with residential structures. | Sanborn Map |
| 1950 | Subject Property and Adjoining Area: The first listing for San Pedro High School appears. There are no listings for the adjoining properties that are of environmental concern. | City Directory |

| Date / Scale | Description | Source |
|---|---|---|
| 1950 | Subject Property: Campus expansion begins and continues through 1969. | Environmental Lien Report |
| 1951<br>1"= 24,000' | Subject Property and Adjoining Area: The Subject Property consists of six major buildings. Easterly adjoining property is depicted as RH Dana Jr. HS and includes two major and seven minor buildings. No visible building on all other adjoining properties. 15th Street, 17th Street, Leland Street, and Meyler Street are shown on the map. | Topographic Map |
| 1953<br>1"= 500' | Subject Property and Adjoining Area: No significant changes of environmental interest are depicted at San Pedro High School. There appears to be five major and five minor buildings visible on the Subject Property. The northeast of the Subject Property is still a residential area. The southeast corner of the Subject Property has what appears to be a playing field with one major building nearby. The easterly adjoining property has replaced two minor buildings with one major building on the north east corner. All other adjoining properties are fully residential. | Aerial Photograph |
| 1953 | Los Angeles City High School District of Los Angeles County receives Title from Southern Counties Gas Company of California, a corporation | Environmental Lien Report |
| 1963<br>1"= 500' | Subject Property and Adjoining Area: The Subject Property has extended its southern border to West 15th street from South Leland Street to South Meyler Street, from east to west; this area appears to be partially under construction for a parking lot. The adjoining areas are still residential. The adjoining easterly property, RH Dana Hr. HS has added a number of buildings along the west side in what was a vacant lot. | Aerial Photograph |

| Date / Scale | Description | Source |
|---|---|---|
| 1964<br>1"= 24,000' | Subject Property and Adjoining Area: The Subject Property is shown with multiple major and minor buildings with 15th Street as the northerly border, 17th Street as the southerly border, Leland Street as the westerly border, and Meyler Street as the easterly border. RH Dana Jr. HS is evident on an adjoining parcel to the east with a few major and multiple minor buildings. The remaining adjacent areas are developed with no visible buildings. A National Guard Armory is depicted north of RH Dana Jr. HS and South of Daniels Field (on 13th Street) between Meyler Street and the following street, Cabrillo Avenue. | Topographic Map |
| 1969 | Subject Property and Adjoining Area: The 1969 Sanborn Map depicts seven structures on the campus. There are no structures of environmental concern on the adjoining parcels. | Sanborn Map |
| 1972<br>1"= 24,000' | Subject Property and Adjoining Area: No changes of environmental significance were depicted on the 1972 topographic map. | Topographic Map |
| 1977<br>1"= 500' | Subject Property and Adjoining Area: The southern portion of San Pedro High School, between South Leland Street and South Alma Street, from east to west, is a fully developed parking lot with one major building. The San Pedro High School has acquired the residential property from South Alma Street to South Meyler Street, from east to west, extending its northerly border to West 14th Street in this section with multiple major and minor buildings being depicted. The southeast corner of the Subject Property includes a softball field and four major buildings. The adjoining easterly property, RH Dana Jr. HS has added buildings in the north and northeast portion of the property. All other surrounding adjoining properties are fully residential and show no significant environmental changes. | Aerial Photograph |

| Date / Scale | Description | Source |
|---|---|---|
| 1981<br>1"= 500' | Subject Property and Adjoining Area: Multiple buildings at San Pedro High School near the corner of West 14th Street and South Meyler Street have been removed. Building changes are also depicted at this corner for RH Dana Jr. HS. All other adjoining properties are fully residential with no significant changes depicted. | Aerial Photograph |
| 1981<br>1"= 24,000' | Subject Property and Adjoining Area: No significant environmental changes were noted on the 1981 topographic map. | Topographic Map |
| 1983<br>1"= 500' | Subject Property and Adjoining Area: A few minor structures have been removed near the corner of West 14th Street and South Meyler Street at the Subject Property's northeast end; this area is now a depicted as a vacant playing field. No significant changes were noted in all adjacent properties. | Aerial Photograph |
| 1989<br>1"= 500' | Subject Property and Adjoining Area: Five minor structures were added to the northeast end of the Subject Property near the corner of West 14th Street and South Meyler Street. One minor structure was removed from the adjoining easterly property, RH Dana Jr. HS near this same intersection. All other adjoining properties continue to be fully residential with no significant changes noted. | Aerial Photograph |
| 1990<br>1"= 500'<br><br>1994<br>1"= 500' | Subject Property and Adjoining Area: No significant changes were noted in the 1990 and 1994 aerial photographs. | Aerial Photograph |
| 2002<br>1"= 500' | Subject Property and Adjoining Area: The baseball field on the northeastern side of the Subject Property became a football field. The playing field near the corner of West 14th Street and South Meyler Street is now a baseball field with a new softball field near the northeast corner of West 17th Street and South Alma Street. No other significant changes are visible on adjoining properties. | Aerial Photograph |

| Date / Scale | Description | Source |
|---|---|---|
| 2005<br>1"= 500' | Subject Property and Adjoining Area: No significant changes were noted in the 2005 aerial photograph. | Aerial Photograph |
| 2009<br>1"= 500' | Subject Property and Adjoining Area: One major building was added close to the baseball field located near the northeast corner of West 14th Street and South Meyler Street. No other significant changes are visible on adjoining properties. | Aerial Photograph |
| 2010<br>1"= 500'<br><br>2012<br>1"= 500' | Subject Property and Adjoining Area: No significant changes were noted in the 2010 and 2012 aerial photographs. The 2012 aerial photo is partially obstructed by clouds. | Aerial Photograph |
| 2012<br>1"= 24,000' | Subject Property and Adjoining Area: Individual structures are not depicted. West 17th Street, West 14th Street, South Alma Street, and Daniels Field are shown. | Topographic Map |

## 4.2 Building Permit Review

There were no building permit records found in the search conducted by EDR (Inquiry Number: 4583327.8). A copy of the report is included in Appendix K.

City of Los Angeles Department of Building and Safety files were reviewed on April 28, 2016. There were no building permits of environmental concern. However, the review revealed that the oldest building permits for two new school buildings on the Subject Property were dated August 7, 1935. No records were available for review prior to 1935.

## 4.3 Environmental Lien and Activity and Use Limitations Review

There were no environmental lien and activity and use limitations found in the search conducted by EDR. A copy of the report is included in Appendix K.

## 4.4 Additional Historical Record Sources

No additional historical environmental reports relevant to the Subject Property or properties surrounding the Subject Property were provided by LAUSD.

## 4.5 Historical Uses and Operations of the Property

The general area in which the Subject Property is located was depicted as being undeveloped on the 1896 topographic map. The first indication of development on the Subject Property is evident on the 1923 and 1925 topographic maps, which depict one residential-sized structure facing 15th Street and approximately eight residential-sized structures facing 17th Street. There also appears to be two small structures on the south central area. 18th Street, 14th Street, Meyer Street [*sic*], and Alma Street are evident on the 1923 and 1925 topographic maps. Prior to that time, the Subject Property and surrounding area were undeveloped.

The land for development of the current San Pedro High School Campus was acquired beginning in 1934 and ending in 1969 (*EDR Environmental Lien and Activities and Use Limitations Report).* Most of the developed parcels were single-family residences. It appears that the large undeveloped parcels were purchased from two utilities: Board of Water and Power Commissioners of the City of Los Angeles (1939) and Southern Counties Gas Company of California (1953). The Subject Property is currently occupied by a Los Angeles Unified School District ("LAUSD") high school that was constructed sometime after August 1935.

A public records request was made to South Coast Air Quality Management District ("SCAQMD"). The following permits were found by the SCAQMD records custodian: Three

permits, one to operate each of the three (3) natural gas boilers at 2,205,000 BTU/hour per boiler on the Subject Property were issued by SCAQMD to LAUSD dated June 26, 1990. One permit to operate one (1) natural gas boiler at 1,600,000 BTU/hour on the Subject Property was issued by SCAQMD to LAUSD dated February 12, 1993.

The following violations were found by the SCAQMD records custodian: On May 15, 2002 a Notice of Violation, P43601, was sent to the Energy Management Unit due to the facility operating two boilers in the main building without an active permit as per R2D3(a). On May 17, 2006 a Notice of Violation, P46692, was issued to the Plant Manager due to failure to demonstrate compliance with R1146.2(c)(4). Neither of these violations is of current environmental concern. For pictures of the boilers taken during the site visit refer to Appendix A.

One permit to operate a spray booth dated January 25, 1980 on the Subject Property was issued by the SCAQMD to LAUSD. This permit expired in 1983.

Three forms dated January 19, 2010, March 14, 2012, and June 17, 2014 for holding more than 50 pounds of refrigerant for air conditioning usage on the Subject Property was reported to SCAQMD by LAUSD.

## 4.6 Historical Review of Surrounding Properties

The general area in which the Subject Property is located was identified as the *San Pedro* on the 1896 topographic map. Most of the surrounding area was occupied by scattered dwellings from the early 1900s until the mid-1920s.

The surrounding area is primarily residential in the northern, western, and southern directions. Dana Middle School is located adjacent to the east. There are no industrial sites within one-half mile of the Subject Property. The closest commercial corridor is located approximately 0.2 miles to the east along South Gaffey Street.

There are no nearby properties of current environmental concern.

# 5.0 REGULATORY AGENCY INFORMATION

## 5.1 Property Permits

No property-specific regulatory agency permits were observed or revealed by LAUSD staff during the site visit. See Section 5.6.3 entitled *South Coast Air Quality Management District* for a discussion of inactive and expired South Coast Air Quality Management District permits.

## 5.2 Standard Environmental Record Sources

The EDR Radius Map Report with GeoCheck® for the Subject Property and surrounding area has been provided in Appendix E. Documents and lists were reviewed to identify properties or facilities located within the site vicinity that may have the potential to adversely impact environmental conditions at the subject parcel. Current GeoTracker and Envirostor Radius Maps were also reviewed and are included in Appendix E following the EDR Radius Map Report.

The complete list of databases searched by EDR is provided in the EDR Radius Map Report with GeoCheck® (Inquiry Number: 4583327.2s dated April 5, 2016). Key finding are summarized in Table 4 on the following page.

***Table 4: Summary of Key Federal, State and Tribal Agency Database Findings[1,2]***

| Database Searched | Search Distance (Miles) | Subject Property Listed | Off Site Listings ≤ 1/8 Mile | Off Site Listings > 1/8 Mile | Concern for Site? |
|---|---|---|---|---|---|
| **Federal** | | | | | |
| NPL | 1.000 | No | 0 | 0 | No |
| Delisted NPL | 1.000 | No | 0 | 0 | No |
| CERCLIS | 0.500 | No | 0 | 0 | No |
| CERCLIS-NFRAP | 0.500 | No | 0 | 1 | No |
| RCRA CORRACTS | 1.000 | No | 0 | 0 | No |
| RCRA-TSDF[3] (RCRA non-CORRACTS TSD) | 0.500 | No | 0 | 0 | No |
| RCRA Generators List | 0.250 | Yes | 0 | 3 | No |
| US Engineering /Institutional Controls | 0.500 | No | 0 | 0 | No |
| ERNS | 0.001 | No | NR | NR | No |
| FINDS | 0.001 | Yes | NR | NR | Evaluated During Site Visit |
| **State and Tribal** | | | | | |
| ENVIROSTOR (CERCLIS[4] Equivalent NPL) | 1.000 | No | 0 | 12 | No |
| Spills Sites (SLIC) [4] | 0.500 | No | 0 | 1 | No |
| Solid Waste/Land Fills[4] | 0.50 | No | 0 | 0 | No |

| Database Searched | Search Distance (Miles) | Subject Property Listed | Off Site Listings ≤ 1/8 Mile | Off Site Listings > 1/8 Mile | Concern for Site? |
|---|---|---|---|---|---|
| LUST[4] | 0.500 | No | 0 | 11 | Evaluate VEC[4] |
| Voluntary Cleanup Sites[4] | 0.500 | No | 0 | 0 | No |
| Brownfields[3] | 0.500 | No | 0 | 0 | No |
| UST | 0.250 | No | 1 | 0 | No |
| AST | 0.250 | No | 0 | 0 | No |
| WDS | TP[3] | No | -- | -- | No |
| NPDES | TP[3] | No | -- | -- | No |
| **EDR Proprietary** | | | | | |
| EDR Manufactured Gas Plants | 1.000 | No | 0 | 0 | No |
| EDR Historical Auto Stations | 0.125 | No | 1 | 0 | Evaluate VEC[4] |
| EDR Historical Cleaners | 0.125 | No | 1 | 0 | Evaluate VEC[4] |

Notes:
1. Does not include Orphan sites (*i.e.*, sites not precisely locatable by EDR).
2. May include multiple listings for a single address.
3. TP: Target Property = Subject Property (site of interest/target property).
4. Database search results of interest in VEC determinations identified in ASTM E2600-10. See Section 8.3 for discussion and Section 9.3 for opinions.

## 5.3 Summary of Federal Agency Database Record Findings

**National Priority List ("NPL")**

The NPL database, also known as Superfund List, is a subset of CERCLIS and identifies sites that are ranked as high priority for remedial action under the Federal Superfund Act.

Neither the Subject Property nor any sites located within one mile were identified on the NPL database.

**Delisted National Priority List**

The National Oil and Hazardous Substance Pollution Contingency Plan ("NCP") establishes criteria that the USEPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425(e), sites may be deleted from the NPL where no further response is appropriate.

Neither the Subject Property nor any sites located within one mile were identified on the Delisted NPL database.

**Comprehensive Environmental Response, Compensation, and Liability Information System ("CERCLIS")**

CERCLIS contains data regarding potentially hazardous waste sites that have been reported to the USEPA by the states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA"). CERCLIS contains sites that are included on the NPL, as well as sites which are in the screening and assessment phase for possible inclusion on the NPL.

Neither the Subject Property nor any sites located within one half mile of the Subject Property were identified in the CERCLIS database.

**CERCLIS-No Further Remedial Action Planned ("CERCLIS-NFRAP")**

As of February 1995, CERCLIS sites designated as No Further Remedial Action Planned ("NFRAP") have been removed from the CERCLIS list. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed

without the need for the site to be placed on the NPL, or the contamination was not considered sufficient to warrant Federal Superfund action or NPL consideration.

The Subject Property is not listed in the CERCLIS-NFRAP database. One site is listed within a quarter mile to one-half mile of the Subject Property on the CERCLIS-NFRAP database. This site is not considered to be of current environmental concern.

**Resource Conservation and Recovery Act – Corrective Action Tracking System ("CORRACTS")**

RCRAInfo is USEPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act ("RCRA") of 1976 and the Hazardous and Solid Waste Amendments ("HSWA") of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System ("RCRIS"). The database includes selective information regarding sites that generate, transport, store, treat and/or dispose of hazardous waste as defined by RCRA. The RCRA-CORRACTS database identifies TSD facilities that have conducted or are currently conducting corrective action as regulated under RCRA.

Neither the Subject Property nor any sites located within one mile of the Subject Property were identified on the RCRA-CORRACTS database.

**RCRA Treatment, Storage and/or Disposal ("TSD") Facilities**

RCRA TSD facilities are required to register hazardous waste activity under RCRA.

Neither the Subject Property nor any sites located within one-half mile of the Subject Property were identified on the RCRA-TSD database.

**RCRA Hazardous Waste Generators**

Hazardous waste generators tracked under RCRA are classified as Large Quantity Generators ("RCRA-LQG"), Small Quantity Generators ("RCRA-SQG") or Conditionally Exempt Small Quantity Generators ("RCRA-CESQG"). A RCRA-LQG is defined as a facility that generates over 1,000 kilograms (Kg) of hazardous waste, or over 1 Kg of acutely hazardous waste per month. A RCRA-SQG is defined as a facility that generates between 100 Kg and 1,000 Kg of hazardous waste per month. A RCRA-CESQG is defined as a facility that generates less than 100 Kg of hazardous waste, or less than 1 Kg of acutely hazardous waste per month.

The Subject Property is listed in the HAZNET database for the removal (offsite disposal) of RCRA wastes. Details are provided in the Facility Report included in Appendix K and summarized in Table 5.

***Table 5: Summary of HAZNET Database Findings for Subject Property***

| Year | Waste Category | Tons |
|---|---|---|
| 2014 | Asbestos-Containing Materials | 32 |
| 2012 | Not Reported | 0.0225 |
| 2012 | Not Reported | 0.0025 |
| 2010 | Latex | 1.35 |
| 2010 | Laboratory Waste Chemicals | 0.06 |
| 2009 | Off-specification, aged or surplus organics | 0.282 |
| 2009 | Laboratory Waste Chemicals | 0.0425 |
| 2009 | Laboratory Waste Chemicals | 0.0125 |
| **2009** | **Unspecified Oil-Containing Waste** | **5.838** |
| 2009 | Asbestos-Containing Materials | 0.005 |
| 2009 | Asbestos-Containing Materials | 3.2 |
| 2009 | Other Organic Solids | 0.075 |
| 2009 | Other Organic Solids | 0.1 |
| 2009 | Laboratory Waste Chemicals | 0.004 |
| 2009 | Off-specification, aged or surplus organics | 0.15 |
| 2009 | Other Inorganic Solid Waste | 0.025 |

| Year | Waste Category | Tons |
|---|---|---|
| 2008 | Asbestos-Containing Materials | 1.6 |
| 2007 | Asbestos-Containing Materials | 0.17 |
| **2007** | **Polychlorinated Biphenyls and Materials Containing PCBs** | **0.2** |
| 2007 | Unspecified Oil-Containing Waste | 0.05 |
| 2007 | Asbestos-Containing Materials | 54.4 |
| 2007 | Waste Oil and Mixed Oil | 0.39 |
| 2006 | Asbestos-Containing Materials | 33.71 |
| 2006 | Asbestos-Containing Materials | 25.28 |
| 2006 | Asbestos-Containing Materials | 16.85 |
| 2006 | Asbestos-Containing Materials | 14.32 |
| 2006 | Asbestos-Containing Materials | 12.64 |
| 2006 | Asbestos-Containing Materials | 29.49 |
| 2006 | Asbestos-Containing Materials | 32.02 |
| 2006 | Asbestos-Containing Materials | 58.99 |
| 2006 | Waste Oil and Mixed Oil | 0.2 |
| 2006 | Asbestos-Containing Materials | 9.27 |
| 2004 | Waste Oil and Mixed Oil | 0.33 |
| 2003 | Other Inorganic Solid Waste | 0.05 |
| 2003 | Waste Oil and Mixed Oil | 0.41 |
| 2003 | Laboratory Waste Chemicals | 0.06 |
| 2002 | Asbestos-Containing Materials | 2.78 |
| 2002 | Laboratory Waste Chemicals | 0.3 |
| 2002 | Waste Oil and Mixed Oil | 0.12 |
| 2001 | Not Reported | 0.25 |
| **2001** | **Other Inorganic Solid Waste** | **25.28** |
| 2001 | Waste Oil and Mixed Oil | 0.41 |
| **2000** | **Other Organic Solids** | **67.42** |
| 2000 | Asbestos-Containing Materials | 8.42 |
| 2000 | Other Organic Solids | 67.42 |
| **2000** | **Other Inorganic Solid Waste** | **25.28** |
| 2000 | Other Organic Solids | 0.33 |
| 2000 | Polychlorinated Biphenyls and Materials Containing PCBs | 2.83 |
| 1999 | Asbestos-Containing Materials | 391.9020 |
| 1999 | Other Organic Solids | 0.0250 |
| 1995 | Unspecified Aqueous Solution | 0.4850 |

| Year | Waste Category | Tons |
|---|---|---|
| 1995 | Other Inorganic Solid Waste | 0.1500 |
| 1993 | Waste Oil and Mixed Oil | 0.4170 |

Further investigation by CSC has revealed that hazardous wastes from a satellite campus located two-miles south of the main campus was the origin of the 5.838 tons of an unspecified oil-containing waste (clarifier sludge) not the Subject Property (E-Mail from J. Nager).

There are no large quantity hazardous waste generators listed within one-quarter mile of the Subject Property.

There are three small quantity hazardous waste generators listed within zero to one-quarter mile of the Subject Property: Charlies Mobil (unspecified aqueous solution, aqueous solution with total organic residue less than 10%, and tank bottom waste), Charlies Auto Center (Nothing Listed), and LA Sewer Office Building (Nothing Listed). Small quantity generators without any history of violations or notices to comply are not of current environmental significance to the Subject Property.

(https://echo.epa.gov/detailed-facility-report?redirect=page&fid=110009544644)

(https://echo.epa.gov/detailed-facility-report?redirect=page&fid=110002768513)

**Federal Institutional Controls / Engineering Controls Registries**

The completion of site cleanup activities may include the implementation of engineering controls as part of the response action. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health. Institutional controls include administrative measures. Examples of groundwater use restrictions, construction restrictions, property use restrictions and post-remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Neither the Subject Property nor any sites located within one-half mile of the Subject Property were identified on the Federal Institutional Controls or Engineering Controls Registries.

**Emergency Response Notification System ("ERNS")**

ERNS is a national database used to collect information regarding reported releases of petroleum products and/or hazardous substances. The database contains information from spill reports submitted to Federal agencies, including the USEPA, the US Coast Guard, the National Response Center and the US Department of Transportation. A review of this database was conducted in order to determine whether any spills or incidents involving releases of hazardous substances or petroleum products have occurred at the subject property.

Neither the Subject Property nor any sites located within 0.001 miles of the Subject Property were identified on the ERNS database.

## 5.4 State and Tribal Equivalent NPL Sites and CERCLIS Sites

State and tribal equivalent NPL database ("RESPONSE") and CERCLIS database ("ENVIROSTOR") were searched for sites located within one mile of the Subject Property.

The Subject Property was not listed in the ENVIROSTOR database. There are three ENVIROSTOR sites listed within one-half mile of the Subject Property:

- Pacific States Oil Company: Inactive – Needs Evaluation (July 1, 2005); Inventory Project Report – Completed July 1, 1999
- Cabrillo Elementary: School Investigation – Inactive-Needs Evaluation (February 7, 2002); Cost Recovery Closeout Memo – Completed February 7, 2002; Phase 1 – Completed June 3, 2001; Environmental Oversight Agreement – Completed February 10, 2000;
- Auto Body Shop: Inactive-Needs Evaluation (January 21, 1999); Preliminary Assessment Report – Completed September 20, 1996; Site Screening – Completed

May 17, 1995 due to a non-emergency hazardous substance release on March 24, 1995.

**State Spills, Leaks, Investigation & Cleanup Sites ("SLIC")**

A review of the SLIC database was conducted in order to determine whether any spills or incidents involving releases of hazardous substances or petroleum products have occurred at the Subject Property.

Neither the Subject Property nor any sites located within one-half mile of the Subject Property were identified on the SLIC database.

**State and Tribal Solid Waste Disposal Sites and Landfill Sites ("SWF/LF")**

The state and tribal landfill and solid waste disposal site databases identify active or inactive landfill and transfer station facilities, as well as open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Neither the Subject Property nor any sites located within one-half mile of the Subject Property were identified on the SWF/LF database.

**State and Tribal Leaking Underground Storage Tank ("LUST") Sites**

Leaking Underground Storage Tank Sites are properties where releases of hazardous substances or petroleum products from underground storage tanks ("USTs") and/or aboveground storage tanks ("ASTs") have been identified and reported to state, tribal or local agencies.

The Subject Property was not identified in the LUST database. There are nine LUST sites, excluding duplicates, listed within one-half mile of the Subject Property:

1. Gaffey and Fifteenth Associates,
2. Mobil #11-MTD,
3. Thrifty #184,
4. GSV – San Pedro Business Center,
5. Bray Terminal,

6. Mobil Service Station 17873 (Former),
7. San Pedro Car Wash,
8. PCBNA Branch Office
9. Shell Service Station.

Gaffey and Fifteenth Associates, addressed as 1500-1510 Gaffey Street, is approximately 1303 feet (0.247 miles; property line to property line) east of the Subject Property. On September 16, 2002 a gasoline leak was discovered and reported. The potential media of concern was an aquifer used for drinking water supply. Information from the GeoTracker website indicated that the case was closed on January 20, 2010. This facility is not of current environmental concern.

Mobil #11-MTD, addressed as 1637 Gaffey, is approximately 1308 feet (0.248 miles; property line to property line) east of the Subject Property. On September 27, 1986 a tank leak was discovered and reported on October 2, 1986. The potential media of concern was an aquifer used for drinking water supply. Information from the GeoTracker website indicated that the case was closed on July 17, 1996. This facility is not of current environmental concern.

Thrifty #184, addressed as 1706 Gaffey Street S, is approximately 1309 feet (0.248 miles; property line to property line) east southeast of the Subject Property. On December 5, 1997 a gasoline leak was discovered and reported on February 18, 1998. The potential media of concern was an aquifer used for drinking water supply. Information from the GeoTracker website indicated that the case is closed as of January 10, 2005. This facility is not of current environmental concern.

GSV – San Pedro Business Center, addressed as 2100 Gaffey Street, is approximately 1872 feet (0.355 miles; property boundary to property boundary) southeast of the Subject Property. On October 3 2001 a tank leak was discovered due to the tank being overfilled. The leak was first reported on January 3, 2001. A hazardous materials ("Haz Mat") incident report was filed. This case is not reported as being closed. This facility is not of current environmental concern with respect to the Subject Property.

Bray Terminal, addressed as 2115 Gaffey, is approximately 1911 feet (0.362 miles; property boundary to property boundary) southeast of the Subject Property. On December 10, 1997 a diesel leak was discovered and reported on March 26, 1998. Leak was discovered during tank closure. The potential contaminant of concern was diesel with the potential media affected being an aquifer used for drinking water supply. The case was transferred to SLIC for cleanup oversight of jet-A fuel contamination not associated with USTs. Information from the GeoTracker website indicated that the case is closed as of April 10, 1998. This facility is not of current environmental concern.

Mobile Service Station 17873 (Former), addressed as 1001Gaffey Street S, is approximately 2120 feet (0.402 miles; property line to property line) northeast of the Subject Property. On February 1, 2014 a gasoline leak was discovered and reported on March 14, 2014. The potential contaminant of concern was gasoline and the potential media affected was groundwater, for uses other than drinking water. Information from the GeoTracker website indicated that the case is currently open with the most current site assessment as of December 3, 2014. This facility is not of current environmental concern with respect to the Subject Property.

San Pedro Car Wash, addressed as 735 S Gaffey Street, is approximately 2514 feet (0.476 miles; property line to property line) north east of the Subject Property. On April 4, 2000 a leak was discovered and first reported on June 18, 2002. A preliminary site assessment work plan was submitted on June 18, 2002 and work began on March 15, 2003 with site characterization beginning on July 9, 2003. A notice of Violation was issued by the California Regional Water Quality Control Board, Los Angeles Region, on December 23, 2008 for failure to take corrective action in response to an unauthorized UST release. A remediation case for site cleanup is reported as still open as of March 18, 2010. The potential contaminant of concern is gasoline with the potential media affected being an aquifer used for drinking water only. There are five groundwater monitoring wells at this site that are monitored semi-annually. Current projected completion date is December 31, 2017. This facility is not of current environmental concern with respect to the Subject Property

PCBNA Branch Office, addressed as 740 Gaffey Street, is approximately 2554 feet (0.484 miles; property line to property line) northeast of the Subject Property. A leak was reported on July 19, 2001. A preliminary site assessment work plan was submitted on September 26, 2001 and began on that same date. A soil excavation cleanup action occurred on August 23, 2004. The potential contaminant of concern is gasoline with the potential media affected was an aquifer used for drinking water supply. A hazardous materials ("Haz Mat") incident report was filed. Information from the GeoTracker website indicated that the case is closed as of July 16, 2008. This facility is not of current environmental concern.

A Shell Service Station (Former), addressed as 1631 Pacific Avenue, is approximately 2627 feet (0.498 miles; property line to property line) east of the Subject Property. On August 10, 2001 a leak was discovered and first reported on January 28, 2002. Post remedial action monitoring began on January 28, 2002 and site characterization began on August 22, 2003. Information from EDR indicates that the case is not reported as closed. This facility is not of current environmental concern with respect to the Subject Property.

**State and Tribal Registered Storage Tank Sites**

The Subject Property was not listed in any UST databases. The closest registered UST is located at San Pedro Car Wash, which is approximately 2514 feet (0.476 miles; property boundary to property boundary) northeast from the Subject Property. This facility is not of current environmental concern.

**State and Tribal Voluntary Cleanup Sites**

Neither the Subject Property nor any sites located within one-half mile of the Subject Property were identified on the VCP database.

**State and Tribal Brownfields Sites**

Neither the Subject Property nor any sites located within one-half mile of the Subject Property were identified on the state and tribal Brownfields Sites database.

## 5.5 EDR Proprietary Databases

The EDR Proprietary Databases include Historical Dry Cleaners, Manufactured Gas Plants and Historical Auto Stations. National collections of business directories and other collected listings of dry cleaners, manufactured gas plants, and historic auto stations were researched by EDR.

There is one historic auto station and one historic dry cleaner within one-eighth mile of the Subject Property. See Section 8.3 entitled *Tier 1 Vapor Encroachment Screen* for an assessment of the potential impacts these facilities on the Subject Property. There are no historic manufactured gas plants within one mile of the Subject Property.

## 5.6 Additional Record Sources

CSC contacted individual agency sources in order to obtain information pertaining to the Subject Property and the surrounding vicinity, as summarized in the following subsections. Correspondence and other documentation from record sources is included in Appendix K.

### 5.6.1 Division of Oil, Gas, and Geothermal Resources

CSC reviewed the Division of Oil, Gas, and Geothermal Resources online map of oil well locations. There are no oil wells located within 1,500 feet of the Subject Property. (http://maps.conservation.ca.gov/doggr/#close)

### 5.6.2 California State Fire Marshal, Pipeline Safety Division

CSC contacted the Pipeline Safety Division on April 28, 2016 regarding a pipeline east of the campus on S. Cabrillo Avenue. Lisa Dowdy replied that no pipelines under the jurisdiction of the State Fire Marshall are located within 1,500 feet of San Pedro High School.

### 5.6.3 South Coast Air Quality Management District

CSC researched the AQMD FIND database, which identifies facilities with AQMD permits, for property addresses associated with the Subject Property. The Subject Property was found and identified as Facility Number 4395. The facility status was shown as active with no back fees due. No notices of violations or notices to comply were recorded. Four inactive permits to operate natural gas only boilers were found. One permit was issued February 12, 1993 and the other three were issued on July 19, 1990. One expired permit to operate a spray booth dated January 25, 1980 was found (http://www3.aqmd.gov/webappl/fim/prog/eqlist.aspx?fac_id=4395).

A public records request was made to South Coast Air Quality Management District (SCAQMD). The following permits were found by the SCAQMD records custodian: Three permits dated June 26, 1990 were issued by SCAQMD to LAUSD. One was to operate each of the three (3) natural gas boilers at 2,205,000 BTU/hour per boiler on the Subject Property. One additional permit dated February 12, 1993 to operate one (1) natural gas boiler at 1,600,00 BTU/hour on the Subject Property.

One permit dated January 25, 1980 to operate a spray booth on the Subject Property was issued by the SCAQMD to LAUSD. The permit restricted use of solvent to less than two gallons per day. However, CSC was informed during the site reconnaissance that only light spraying with aerosol cans was conducted using this spray booth in the wood shop.

Three forms for holding more than 50 pounds of refrigerant for air conditioning usage on the Subject Property was reported to SCAQMD by LAUSD on January 19, 2010, March 14, 2012, and June 17, 2014. The use of natural gas boilers use is not an environmental concern.

The following violations were found by the SCAQMD records custodian: On May 15, 2002 a Notice of Violation, P43601, was sent to the Energy Management Unit due to the facility operation of two boilers in the main building without an active permit as per R2D3(a). On May 17, 2006 a

Notice of Violation, P46692, was issued to the Plant Manager for failure to demonstrate compliance with R1146.2(c)(4).

### 5.6.4 Los Angeles Department of Water and Power

CSC reviewed the California Energy Commission's Energy Infrastructure Maps of California - transmission lines–substations to identify the presence of any high voltage power lines and electrical substations in the vicinity of the Subject Property. The nearest transmission lines carry 110-161 KV and are approximately one and one-half miles north northeast. (http://www.energy.ca.gov/maps/infrastructure/3P_Enlg.pdf)

### 5.6.5 Southern California Gas

CSC reviewed the Southern California Gas Company (SCG) online map to locate natural gas transmission lines. There is a natural gas high pressure distribution line that runs down North Harbor View Avenue until West 1st Street, approximately 5,237 feet northwest from the Subject Property (Google Earth ruler). High pressure distribution lines generally operate above 60 pounds per square inch (psi). The nearest transmission line runs along the 110 Freeway approximately 2 miles north northeast from the Subject Property. Transmission lines generally operate above 200 psi (https://www.socalgas.com/safety/pipeline-maps/LA.shtml).

CSC reviewed the California Energy Commission's California Energy Maps – Map of Major Natural Gas Pipelines in California online map to locate natural gas pipelines. There is a natural gas pipeline 27-32 inches in diameter owned by SCG approximately 4 miles northeast from the Subject Property. (http://www.energy.ca.gov/maps/infrastructure/Natural_Gas_Pipelines.pdf)

### 5.6.6 Los Angeles Regional Water Quality Control Board (RWQCB)

CSC contacted the RWQCB Underground Storage Tank (UST), SLIC, and Well Investigation Program (WIP) divisions regarding files associated with the Subject Property. No records were

found for the Subject Property.

### 5.6.7 Los Angeles County Public Health Investigation (PHI)

CSC contacted the PHI to identify any existing records for the address associated with the Subject Property. Records were found and reviewed by CSC on April 27, 2016. The file contained the same information as was obtained from the City of Los Angeles Fire Department.

No evidence of the presence of an UST was found.

### 5.6.8 City of Los Angeles Integrated Waste Management District

CSC contacted the City of Los Angeles Integrated Waste Management District. No records were found.

CSC reviewed the Department of Public Works - Solid Waste Management System database to locate permitted solid waste facilities, closed landfills, and historical dumpsites at the Subject Property. No records were found for the Subject Property.
(https://dpw.lacounty.gov/epd/swims/OnlineServices/search-solid-waste-sites-esri.aspx)

### 5.6.9 Department of Toxic Substances Control (DTSC)

CSC contacted the Cypress and Chatsworth DTSC offices to identify any existing records for the address associated with the Subject Property. No records were found for the Subject Property.

### 5.6.10 Environmental Protection Agency (USEPA)

CSC searched the USEPA online public records database to identify any existing records for the address associated with the Subject Property. No records were found for the Subject Property.
https://www3.epa.gov/enviro/html/fii/myproperty/index.html

### 5.6.11 Office of Environmental Health Hazard Assessment (OEHHA)

The Office of Environmental Health Hazard Assessment (OEHHA), on behalf of the California Environmental Protection Agency (CalEPA), provides a Communities Environmental Health Screening Tool: CalEnviroScreen. CalEnviroScreen is a screening methodology that can be used to help identify California communities that are disproportionately burdened by multiple sources of pollution. The tool presents a broad picture of the burdens and vulnerabilities different areas confront from environmental pollutants. It relies on the use of indicators to measure factors that affect pollution impacts in communities: ozone concentrations in air, PM2.5 concentrations in air, diesel particulate matter emissions, use of certain high hazard, high volatility pesticides, toxic releases from facilities, traffic density and drinking water quality.

CSC researched this mapping tool to assess the Subject Property's overall burden resulting from multiple sources of pollution. San Pedro High School is located in Census Tract 6037296901. The CalEnviroScreen pollution burden percentile for this census tract is 45. This finding indicates that the Subject Property has a pollution burden lower than 55% of the census tracts in California.
(http://oehha.maps.arcgis.com/apps/MapSeries/index.html?appid=42671dba7b11450992240113 5ff86588&webmap=28431b9f419346d7ba38f8752631aed4)

### 5.6.12 City of Los Angeles Fire Department (LAFD)

CSC contacted the LAFD Hazardous Materials Records Custodian on April 5, 2016. Copies of records found were reviewed by CSC. These records are included in Appendix K. The Waste Streams identified on the Hazardous Waste Generator Unified Program Form for 2010 are listed below:

***Table 6: Summary Description of 2010 Waste Streams***

| Source | Waste Description | Waste ID | Est. Amount Per Year | Disposal Method |
|---|---|---|---|---|
| Maintenance | Light Bulbs | NA | 228 Pounds | Recycling |
| Auto Shop Shutdown | Hazwaste Solids (oily absorbent, rags) | 223/352 | 320 Pounds | Recycling |

| Source | Waste Description | Waste ID | Est. Amount Per Year | Disposal Method |
|---|---|---|---|---|
| Auto Shop Shutdown | Clarifier Sludge | 223 | 1,400 Gallons | Treatment |
| Biology Class | Waste Formaldehyde | D001/331 | 340 Pounds. | Incineration |
| Maintenance/Auto | Waste Flammable Liquids | D001/331 | 815 Pounds | Recycling |
| Science Class | Waste Caustic Alkali (lab pack) | D002/551 | 45 Pounds | Recycling |
| Maintenance | Waste Flammable Solid | D001/352 | 200 Pounds | Recycling |
| Maintenance | Asbestos | 151 | 27 Cubic Yards [*sic*] | Landfill |
| Auto Shop | Used Oil | 221 | 50 Gallons | Recycling |

In 2012, spent photochemicals containing silver from film processing was added. All other waste materials, except light bulbs, were deleted.

The following wastes and chemicals were listed on the 2010 Hazardous Materials Inventory:

***Table 7: Summary of 2010 Hazardous Materials Inventory***

| Action | Physical State | Hazardous Component | Largest Container | Annual Waste Amount |
|---|---|---|---|---|
| Add | Solid | Waste Flammable Solid | 55 Gallons | 200 |
| Add | Liquid | Waste Caustic Alkali | 20 Gallons | 45 |
| Add | Liquid | Waste Flammable Liquid | 20 Gallons | 340 Pounds |
| Add | Liquid | Clarifier Waste | 2000 Gallons | 1400 Gallons |
| Add | Solid | Non-RCRA Hazardous Waste | 55 Gallons | 320 Cubic Feet |
| Add | Solid | Spent Fluorescent Lights | 0.5 Cubic Yards | 228 Pounds |
| Delete | Liquid | Chemical Waste | 5 Gallons | 0 Gallons |
| Delete | Liquid | Silver in Spent Fixer/Developer | 15 Gallons | 0 Gallons |
| Revise | Liquid | XS-100 Stripper<br>• 2-Butoxyethanol (2% by WT)<br>• Sodium Hydroxide (1% by WT)<br>• Monoethanolamine (3% by WT | 1 Gallon | NA |
| Revise | Solid | Waste Asbestos | 40 Cubic Yards | 27 Cubic Feet |
| Revise | Liquid | Gym Finish (Contender Finish Part A & B)<br>• Propylene Glycol Monomethyl Ether (Part A, 9-14% by WT)<br>• Aminated Acrylic Polymer-Chloride@Bromide Salt (A, <1% by WT)<br>• Gamma-Butyrolacetone-1 (Part B, 4-8% by WT)<br>• Reaction Products Epichlorohydrin & Bisphenol (B, <1% by WT)<br>• Benzyl Alcohol-2 (Part B, 1-5% by WT) | 5 Gallons | NA |

| Action | Physical State | Hazardous Component | Largest Container | Annual Waste Amount |
|---|---|---|---|---|
| Add | Liquid | Used Oil | 55 Gallons | 60 Gallons |
| Revise | Liquid | Super Polymer 85 (Floor Wax)<br>• Glycol Ether DE (<8% by WT)<br>• Tributoxymethyl Phosphate (<3% by WT) | 5 Gallons | NA |
| Revise | Liquid | Water-Based Paint (Ethylene Glycol) | 5 Gallons | NA |
| Revise | Liquid | Diesel Fuel | 55 Gallons | NA |
| Revise | Liquid | Gasoline<br>• Toluene (12% by WT)<br>• Xylene (11% by WT)<br>• Benzene (5% by WT) | 55 Gallons | NA |

Storage locations were redacted on the Unified Program Forms. The wastes and chemicals identified and updated on the 2012 Hazardous Materials Inventory are:

***Table 8: Summary of 2012 Hazardous Materials Inventory***

| Action | Physical State | Hazardous Component | Largest Container | Annual Waste Amount |
|---|---|---|---|---|
| Delete | Solid | Waste Flammable Solid | 0 | 0 |
| Delete | Liquid | Waste Caustic Alkali | 0 | 0 |
| Delete | Liquid | Waste Flammable Liquid | 0 | 0 |
| Delete | Liquid | Clarifier Waste | 0 | 0 |
| Delete | Solid | Non-RCRA Hazardous Waste | 0 | 0 |
| Revise (no change) | Solid | Spent Fluorescent Lights | 0.5 Cubic Yards | 228 Pounds |
| Delete | Liquid | Chemical Waste | 0 | 0 |
| Revise | Liquid | Silver in Spent Fixer/Developer | 15 Gallons | 120 Gallons |
| Revise (no change) | Liquid | XS-100 Stripper<br>• 2-Butoxyethanol (2% by WT)<br>• Sodium Hydroxide (1% by WT)<br>• Monoethanolamine (3% by WT | 1 Gallon (Daily Max 55 gallons) | NA |
| Delete | Solid | Waste Asbestos | 0 | 0 |

| Action | Physical State | Hazardous Component | Largest Container | Annual Waste Amount |
|---|---|---|---|---|
| Revise (no change) | Liquid | Gym Finish (Contender Finish Part A & B):<br>• Propylene Glycol Monomethyl Ether (Part A, 9-14% by WT)<br>• Aminated Acrylic Polymer-Chloride@Bromide Salt (A, <1% by WT)<br>• Gamma-Butyrolacetone-1 (Part B, 4-8% by WT)<br>• Reaction Products Epichlorohydrin & Bisphenol (B, <1% by WT)<br>• Benzyl Alcohol-2 (Part B, 1-5% by WT) | 5 Gallons (Daily Max 100 Gallons) | NA |
| Delete | Liquid | Used Oil | 0 | 0 |
| Revise (no change) | Liquid | Super Polymer 85 (Floor Wax)<br>• Glycol Ether DE (<8% by WT)<br>• Tributoxymethyl Phosphate (<3% by WT) | 5 Gallons (Daily Max 150 Gallons) | NA |
| Revise (no change) | Liquid | Diesel Fuel | 55 Gallons (Daily Max 55 Gallons) | NA |
| Revise (no change) | Liquid | Gasoline<br>• Toluene (12% by WT)<br>• Xylene (11% by WT)<br>• Benzene (5% by WT) | 55 Gallons (Daily Max 110 Gallons) | NA |

San Pedro High School is not subject to the Emergency Planning and Community Right to Know Act (EPCRA).

CSC also contacted the LAFD UST Public Records Custodian (Appendix K). No records were found.

## 6.0 SITE ISSUES

A current site map is provided as Figure 3. Photographs of the Subject Property are presented in Appendix A.

## 6.1 Previous Investigations

CSC was not provided with any information regarding any previous environmental investigations including the radon surveys conducted in 1990 and 2016 on the Subject Property by LAUSD.

## 6.2 Chemical and Hazardous Material Handling and Storage

An EDR Facility Report is included in Appendix K. A list of the chemicals used/stored at the Subject Property is included in Appendix K. According to the 2012 Hazardous Materials Inventory, the only wastes currently generated are spent fixer/developer (120 gallons per year) and spent fluorescent lights (228 pounds per year)

Hazardous materials used on the Subject Property include fixer, used in the photography dark room, which is stored in plastic bottles in the dark room area. No staining or evidence of spills was noted in the dark room area.

Chemicals used for chemistry experiments are kept in a safety cabinet in the chemistry storeroom. No staining or signs of spills was noted in the chemistry area.

Other hazardous substances include very small quantities of paint and cleaning supplies, which are not of current environmental significance.

Diesel and gasoline for use in maintenance vehicles are stored in a concrete satellite structure identified as the "Flammables Storage Bunker". The maximum daily quantities stored on site are 55 and 110 gallons respectively. No staining or indications of spills was noted in the storage area.

## 6.3 Storage Tanks and Clarifiers

No evidence (*i.e.* fill ports, vent pipes) of underground storage tanks was observed at the time of the reconnaissance.

On June 2, 2016, CSC confirmed the presence of a clarifier in the parking area on the western side of the Industrial Arts Building. According to LAUSD staff, this clarifier processed vehicle wash water. The presence of the clarifier is a REC.

## 6.4 Asbestos, Lead-Based Paint, Caulking and Pesticides

Due to the age of the current buildings on the Subject Property, there is a potential that the interior and exterior construction materials may contain asbestos and lead-based paint. Caulking is presumed to contain PCBs. Additionally, based on the age of the current buildings on the Subject Property, organochlorine pesticides may have been used in landscaped areas.

Asbestos containing materials were identified in the main building basement where the boilers are located; specifically there is a transite pipe that goes to the roof.

## 6.5 Polychlorinated Biphenyls (PCBs)

The active transformers observed on the Subject Property alongside the Girls Gym were commissioned circa 1997-2000. These transformers were manufactured after the ban on PCBs went into effect in 1979. These transformers are not of current environmental concern.

The inactive transformers stored in the vault in the basement of the Administration Building are the property of the City of Los Angeles Department of Water and Power ("DWP"). No information concerning any historical use of PCBs in these transformers was available at the time the report was prepared.

Caulking in the structures slated for demolition and seismic retrofitting is presumed to contain PCBs.

## 6.6 Evidence of Environmental Concern

### 6.6.1 Stained Soil, Pavement, and Concrete

Typical oil staining from vehicles was observed on the asphalt of the immediately adjacent street areas and driveways of the Subject Property. Lighting was insufficient to make a determination whether the decommissioned transformers in the vault in the Administration Building had leaked at the time it was inspected on a previous site walk conducted by Mr. Jeffrey L. Bannon of CSC.

### 6.6.2 Stressed Vegetation

The vegetation observed around the Subject Property perimeter during the Site reconnaissance showed no signs of abnormal biological stress that could indicate subsurface contamination.

### 6.6.3 Drums

No 55-gallon drums containing pure or hazardous waste were observed on the Subject Property during the Site reconnaissance.

### 6.6.4 Air Quality

No significant odors were noted during the site reconnaissance except in the Flammables Storage Bunker when it was inspected on June 2, 2016. The Flammables Storage Bunker contained one 55-gallon drum of diesel and two 55-gallon drums of gasoline. These drums were not sealed after fuel was transferred to containers. Consequently, vapors seeped from the drums through the transfer hose into the interior atmosphere. See photograph in Appendix A.

# 7.0 SCHOOL SITE ENVIRONMENTAL SCREENING CRITERIA FINDINGS

CSC contacted several utility agencies to obtain or confirm information relevant to school site-specific issues. Additionally, information was obtained from topographic maps and the EDR

Radius Map Report as indicated below. A completed School Site Environmental Screening Criteria Checklist and supporting documentation are provided in Appendix H.

## 7.1 High Voltage Power Transmission Lines

Based on the EDR maps, site reconnaissance and agency inquiries, there are no high voltage Power Transmission Lines within 1,500 feet of the Subject Property.

## 7.2 Railroads

Based on the EDR maps, site reconnaissance, and Google Earth map there are no railroad lines within 1,500 of the Subject Property.

## 7.3 Hazardous Disposal Sites

Based on the EDR Radius Map report, site reconnaissance, and agency inquiries the Subject Property is not a current or former hazardous waste or solid waste disposal site. The EDR report and agency review indicate that the Subject Property is not within 2,000 feet of a significant hazardous waste disposal site. This information was verified through a search of the City of Los Angeles Zone Information Map Access System ("ZIMAS", http://zimas.lacity.org).

## 7.4 Hazardous Material Pipelines

Based on the EDR Radius Map Report, site reconnaissance and communication from the State Fire Marshal's Pipeline Safety Division, the Subject Property is not located within 1,500 feet of a hazardous material or oil pipeline. There is a natural gas high pressure distribution line located 5,237 feet northwest of the Subject Property (Southern California Gas Company Pipeline Map). There is a natural gas pipeline approximately feeding from this high pressure distribution line located on South Cabrillo Avenue located approximately 675 feet to east of the Subject Property.

## 7.5 Airports

The Subject Property is not located within two miles of an operating airport based on information obtained from the Google Earth map, EDR Radius Report, ZIMAS (http://zimas.lacity.org), and site reconnaissance. There is a heliport located approximately one mile northwest of the Subject Property (EDR Radius Map).

## 7.6 High-Pressure Water Pipelines, Reservoirs, Water or Fuel Storage Tanks

CSC contacted the Los Angeles Department of Water and Power to obtain information regarding the presence of high pressure water pipelines and utilities within 1,500 feet of the Subject Property. There are no water tanks or high pressure pipelines on the Subject Property or adjoining properties.

Off-site UST facilities located within one-half mile of the Subject Property are listed in Table 5 in Section 8.2 entitled *Nearby Properties*.

## 7.7 Major Roadways

The closest major roadway is Interstate 110 (Harbor Freeway) which is located approximately one and one-half mile in a north northeast direction from the Subject Property (Google Earth ruler).

## 7.8 Geological Special Studies Zone

The Subject Property is not in an Alquist-Priolo Act Special Studies Zone. The Subject Property is within 2.5 kilometers of the Palos Verdes Fault Zone (ZIMAS, http://zimas.lacity.org).

## 7.9 Flood and Inundation

The Subject Property is not within a Flood and Inundation Zone (ZIMAS, http://zimas.lacity.org).

## 7.10 Border Zone Property

The Subject Property is not in a Border Zone (ZIMAS, http://zimas.lacity.org).

# 8.0 FINDINGS

The Subject Property is situated on an irregularly shaped-parcel (APN 7458-024-918). Title is vested in the Los Angeles Unified School District ("LAUSD"). The planned project area ("Academic Campus") is bounded by West 15th Street on the north, West 17th Street on the south, athletic buildings and infrastructure to the east and South Leland Street on the west. The easterly portion (parking and athletic infrastructure) is bounded by West 14th Street on the north, West 17th Street on the south, the Dana Middle School Campus on the east and the Academic Campus on the west.

The San Pedro High School campus consists of a cluster of 10 permanent structures used primarily for classrooms, offices, gymnasiums, auditorium and cafeteria on an approximately 23-acre lot (Google Earth ruler). There are nine portable classrooms and a concrete block storage bunker for flammable liquids. A baseball field, football field, softball field and parking lot are located on the eastern portion of the Subject Property between West 14th Street on the north and West 17th Street on the south. A current site map is provided as Figure 3. Photographs of the Subject Property are presented in Appendix A.

This assessment revealed several items of concern that are not classified as RECs, CRECs, HRECs or *de minimis* conditions under the ASTM E 1527-13 Standard:

- Due to prior use of organochlorine compounds (termiticides, herbicides including arsenic and pesticides) and PCB-contaminated caulking, there may be residual compounds of concern in surficial soils.
- The Subject Property is within a zip code for which elevated radon concentrations (above 4.0 pCi/L) of radon have been reported for 5 out of 51 tests conducted.

Radon mitigation measures should be implemented where feasible during new construction and seismic retrofitting.

- Due to the age of the buildings, asbestos and lead-based paint may be present.
- There are decommissioned Department of Water and Power electrical transformers in a vault in the basement of the Administration Building which will undergo seismic retrofitting.

## 8.1 Subject Property

The on-site inspection, historical information and government agency review of the Subject Property **has revealed evidence** of a REC in connection with the Subject Property. There is a clarifier associated with the operation of an auto shop program conducted in the parking area facing South Leland Street for one of the buildings scheduled for demolition. Further investigation of the soil in the location of the clarifier is warranted.

The on-site inspection, historical information and government agency review of the Subject Property **has not revealed evidence** of corrected RECs ("CRECS") and/or historic RECs ("HRECs") in connection with the Subject Property.

Additional documentation regarding the Subject Property is included in Appendix K:

- EDR Environmental LienSearch Report
- EDR Facility Site Report
- Public Records Requests and Responses
- E-Mail Correspondence with Complex Project Manager

## 8.2 Nearby Properties

Facilities within one-eighth mile of the Subject Property with reported confirmed releases to the subsurface are most likely to have an environmental impact on the subject property. Operations

within one-half mile of the Subject Property that emit hazardous materials to the atmosphere are most likely to have potential for air quality impacts. Please see Table 9 on the following page and Section 9.0 entitled *Opinions* of this report for a more thorough discussion of the results of this assessment with regards to the nearby properties.

***Table 9: Commercial and Institutional Facilities within One-Half Mile of Subject Property***

| Facility Name/Address | EDR Distance & Direction from Subject Property | EDR Database Listings | Opinion |
|---|---|---|---|
| *Appears to be a single family residence* | 46 Feet<br>Southeast | EDR Hist Auto Station | VEC can be ruled out based on site-specific conditions. |
| *Home-Based Carpet Cleaning Company* | 49 Feet<br>West Northwest | EDR Hist Cleaner | Not of current environmental concern. |
| Charlies Mobil<br>1637 S Gaffey Street | 1,284 Feet<br>East | HAZNET<br>RCRA-SQG | Not of current environmental concern; more than one-tenth mile from Subject Property |
| Charlies Auto Center<br>1637 S Gaffey | 1,284 Feet<br>East | ECHO<br>FINDS<br>RCRA-SQG | Not of current environmental concern; more than one-tenth mile from Subject Property |
| Gaffey and Fifteenth<br>1500-1510 Gaffey Street | 1,303 Feet<br>East | LUST | VEC can be ruled out due to site-specific conditions; more than one-tenth mile from Subject Property |
| Mobile #11 – MTD<br>1637 Gaffey | 1,308 Feet<br>East | LUST<br>HIST CORTESE | VEC can be ruled out; more than one-tenth mile from Subject Property |
| Thrifty #184<br>1706 Gaffey Street South | 1,309 Feet<br>East Southeast | LUST | Not of current environmental concern; more than one-tenth mile from Subject Property |

| Facility Name/Address | EDR Distance & Direction from Subject Property | EDR Database Listings | Opinion |
|---|---|---|---|
| LA Sewer Office Building<br>1406 Gaffey Street | 1,312 Feet<br>East Northeast | ECHO<br>FINDS<br>RCRA-SQG | Not of current environmental concern; evidence of spills or leaks of VOCs |
| Pacific States Oil Company<br>*No Address Listed* | 1,689 Feet<br>East Northeast | ENVIROSTOR | Not of current environmental concern; has been redeveloped as an apartment complex |
| GSV – San Pedro Business<br>2100 Gaffey Street | 1,872 Feet<br>Southeast | LUST | Not of current environmental concern; more than one-tenth mile from Subject Property |
| Bray Terminal<br>2115 Gaffey | 1,911 Feet<br>Southeast | HIST CORTESE<br>LUST<br>SLIC | Not of current environmental concern; more than one-tenth mile from Subject Property |
| Cabrillo Elementary<br>732 South Cabrillo | 2,095 Feet<br>North Northeast | ENVIROSTOR<br>SCH | Not of current environmental concern; more than one-third mile from Subject Property |
| Mobile Service Station<br>1001 Gaffey Street South | 2120 Feet<br>Northeast | LUST | Not of current environmental concern; more than one-tenth mile from Subject Property |
| San Pedro Car Wash<br>735 South Gaffey Street | 2,514 Feet<br>Northeast | LUST<br>SWEEPS UST<br>UST | Not of current environmental concern; more than one-tenth mile from Subject Property |
| Auto Body Shop<br>1505-1555 South Pacific | 2,545 Feet<br>East | ENVIROSTOR | Not of current environmental concern; more than one-third mile from Subject Property |
| Auto Body Shop<br>1505-1555 South Pacific | 2,545 Feet<br>East | SEMS-ARCHIVE | Not of current environmental concern due to distance |

| Facility Name/Address | EDR Distance & Direction from Subject Property | EDR Database Listings | Opinion |
|---|---|---|---|
| PCBNA Branch Office<br>740 Gaffey Street | 2,554 Feet<br>Northeast | LUST | Not of current environmental concern; more than one-tenth mile from Subject Property |
| Shell Service Station<br>1631 Pacific Avenue | 2,627 Feet<br>East | LUST | Not of current environmental concern; more than one-tenth mile from Subject Property |
| Shell<br>1631 Pacific | 2,627 Feet<br>East | HIST CORTESE<br>LUST | Not of current environmental concern; more than one-tenth mile from Subject Property |
| Shell Service Station<br>1631 West Pacific | 2,627 Feet<br>East | ECHO<br>FINDS<br>LUST<br>RCRA-SQG | Not of current environmental concern; more than one-tenth mile from Subject Property |

## 8.3 Tier 1 Vapor Encroachment Screen

According to the American Society of Testing and Materials Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions (ASTM E2600-10), the purpose of a Tier 1 Vapor Encroachment Screen (Tier 1 VES) is to use Phase I ESA-type information to determine if a vapor encroachment condition (VEC) exists at the subject site.

The area of concern ("AOC") for nearby sites is one-third of a mile ( 1,760 feet) around the subject site, unless the use of a shorter distance such as for petroleum hydrocarbon chemicals of concern ("COC") is provided by subsection 8.3.2 of ASTM Standard Practice E 2600-10. The AOC for petroleum hydrocarbon COCs is one-tenth mile (528 feet).

Three forms for holding more than 50 pounds of refrigerant for air conditioning usage on the Subject Property was reported to SCAQMD by LAUSD on January 19, 2010, March 14, 2012, and June 17, 2014.

***Table 10: Summary of Tier 1 Vapor Encroachment Screen Findings for Subject Property***

| COC | VEC Determination | |
|---|---|---|
| | **Exists** | **Can Be Ruled Out** |
| Chlorinated Solvents | No | Copies of an expired 1980 paint spray booth permit received from SCAQMD revealed that the permit was for a paint booth was limited to using no more than 2 gallons per day of solvent. CSC learned during the site reconnaissance that no solvents were used. Wooden items were spray painted with aerosol cans. |
| Freon (CFC in air conditioning and refrigerants) | Unlikely | Cannot be ruled but unlikely to exist: although Freon is heavier than air, it readily mixes with air and is quickly carried into the upper atmosphere unlike TCE and PCE. |
| Natural Gas (boiler fuel) | No | Vapor is lighter than air at ambient temperatures and is stored in indoor, aboveground tanks. |
| PHc (diesel) | Highly Unlikely | o USTs or ASTs; small quantities (<55 gallons) are stored for use in maintenance vehicles; no reportable leaks or spills found in agency record review |
| PHc (gasoline) | Highly Unlikely | Yes, no USTs or ASTs; small quantities (<110 gallons) are stored for use in maintenance vehicles; no reportable leaks or spills found in agency record review |

Notes:
1. PHc: Petroleum Hydrocarbon Solvents, Motor Fuels, Waste Oil, Fuel Oil

## 8.4 Orphan Properties

Orphan properties are sites contained in government record reports that cannot be geographically mapped or geocoded due to an inadequate or incomplete address in the government database or computer map file.

The list of orphan properties contained in the EDR Radius Map Report (Appendix D) for the Subject Property was reviewed. No sites were identified which would be of environmental significance to the Subject Property.

## 8.5 Data Gaps

No historic topographic maps were available for review for the period from 1896 through 1922.

No historic aerial photographs were available for review for the period from 1928 through 1946.

No building department records were available for review prior to 1935.

Due to the presence of parked vehicles, CSC was unable to evaluate the condition of the clarifier associated with the auto shop program, which has been discontinued. Presence of the clarifier is a REC.

No information concerning the possible use and storage of termiticides, pesticides and herbicides including arsenic on the Subject Property was uncovered during the performance of this Phase I ESA. This finding is an item of concern.

Caulking has not been surveyed for the presence of PCBs.

There are de-commissioned City of Los Angeles Department of Water and Power transformers in a vault in the Administration Building.

No other data gaps were identified that would materially impact the opinions and conclusion expressed in this report.

# 9.0 OPINIONS

## 9.1 Recognized Environmental Conditions (Current, Controlled and Historic)

The on-site inspection, historical information, and government agency record review of the Subject Property **has revealed evidence** of a current REC in connection with the Subject Property. LAUSD staff reported that there is a clarifier associated with the operation of an auto shop that was located in one of the buildings scheduled for demolition. The presence of this clarifier was confirmed on June 2, 2016. It has not been operational for several years. It is located in a parking area facing Leland Street west of the Industrial Arts Building. The presence of parked cars prevented direct observation of the clarifier. It was installed to remove oils and grease associated with washing vehicles.

The on-site inspection, historical information, and government agency record review of the Subject Property **have not revealed evidence** of any controlled or historical RECs in connection with the Subject Property.

The presence of any USTs on the Subject Property is highly unlikely.

In 1980, a permit for a spray booth was issued by SCAQMD. This permit expired in 1983. CSC is of the opinion that the historic operations of a dry spray booth would not result in the usage of solvents. There are no reported violations in SCAQMD's FIND database or records associated with the facility that would indicated the presence of significant quantities of solvents needed for spray booth operation.

Based on the information contained in the EDR Radius Map Report for the Subject Property, nearby sites (*i.e.*, sites less than one-half mile away) are not of current environmental concern. See discussions in Sections 8.2 entitled *Nearby Properties* and 9.3 entitled *Vapor Encroachment Conditions*.

## 9.2 *De Minimis* Conditions and Items of Concern

The on-site inspection did not reveal any *de minimis* conditions at the Subject Property. A *de minimis* condition generally does not present a threat to human health or the environment and generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. *De minimis* conditions do not include conditions classified as recognized environmental conditions or controlled recognized environmental conditions. No *de minimis* conditions were identified during the site reconnaissance.

This assessment revealed several items of concern that are not classified as RECs, CRECs, HRECs or *de minimis* conditions under the ASTM E 1527-13 Standard:

- Due to prior use of organochlorine compounds (termiticides, herbicides including arsenic and pesticides) and the presumed presence of PCBs in caulking, there may be residual compounds of concern in surficial soils.
- The Subject Property is within a zip code for which elevated radon concentrations (above 4.0 pCi/L) of radon have been reported for 5 out of 51 tests conducted.
- Due to the age of the buildings, asbestos and lead-based paint may be present.

Presence of radon in campus buildings has been confirmed by a previous survey conducted by LAUSD. Radon mitigation measures are necessary.

## 9.3 Vapor Encroachment Conditions

The Tier 1 vapor encroachment screening (Tier 1 VES) revealed that vapor encroachment conditions (VECs) resulting from a release of volatile organic compounds from the Subject Property or nearby properties are **unlikely to exist due to site-specific conditions.**

Investigation and evaluation of a vapor intrusion conditions is outside the scope of the ASTM E1527-13 and ASTM E 2600-10 Standards. It is an indoor air quality concern. Radon is an indoor air quality item of concern at the Subject Property.

# 10.0 CONCLUSIONS

CSC performed a Phase I Environmental Site Assessment in general conformance with the scope and limitations of American Society for Testing and Materials (ASTM) "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process", E 1527-13 and the LAUSD checklist, for the property identified as San Pedro High School addressed as 1001 West 15th Street, San Pedro, California 90731.

Any exceptions to, or deletions from, this practice are described in Section 11.0 entitled *Special Terms and Conditions* of this report.

## 10.1 Recognized Environmental Conditions

The on-site inspection, historical information, and government agency record review of the Subject Property **has revealed evidence** of a current REC in connection with the Subject Property. There is a clarifier associated with the operation of an auto shop that was located in one of the building scheduled for demolition. Further investigation of the soil in the location of the clarifier is warranted.

## 10.2 Tier 1 Vapor Encroachment Screen

The Tier 1 vapor encroachment screening (Tier 1 VES) revealed that vapor encroachment conditions (VECs) resulting from a release of volatile organic compounds from the Subject Property or nearby properties are **unlikely to exist due to site-specific conditions.** See Tables 5 and 6 in Section 8.3 of this report for a more thorough discussion.

## 10.3 Data Gaps

No data gaps in historical information were identified that would materially affect the opinions and conclusions expressed in this report except for the items of concern identified in Section 10.4 below.

## 10.4 Items of Concern

This assessment revealed several items of concern that are not classified as RECs, CRECs, HRECs or *de minimis* conditions under the ASTM E 1527-13 Standard.

Based on the possibility of the historic use of termiticides, herbicides including arsenic, pesticides, PCBs in caulking and lead-based paint, CSC recommends that surficial soils in the construction area be sampled.

Mitigation measures for radon intrusion be implemented. Surveys previously conducted by LAUSD confirmed its presence. This finding is an indoor air quality concern.

There are decommissioned DWP transformers in the vault in the basement of the administration building that might contain PCBs..

In addition, CSC recommends that all structures for demolition be surveyed for the presence of asbestos, lead-based paint and building materials such as switches and air conditioning units that typically contain hazardous materials that are classified as Universal Wastes.

# 11.0 SPECIAL TERMS AND CONDITIONS

## 11.1 Limitations and Exceptions of Assessment

CSC has performed this assessment in accordance with ASTM Standard Practice for Environmental Site Assessments E1527-13 and the *School Site Environmental Screening Criteria Checklist* (Appendix H).

## 11.2 Limiting Conditions and Methodology Used

This report is based upon data and information obtained during the site visit performed by CSC personnel to the Subject Property identified herein and is based solely upon the condition of the Subject Property on the date of such inspection, supplemented by information and data obtained by CSC from other commercial and regulatory agency sources identified in Appendix I.

The evaluation and conclusions contained in this report have been prepared in light of the expertise and experience of CSC. However, in evaluating the Subject Property, CSC has relied in good faith upon representations and information furnished by sources identified in Appendix I with respect to operations and existing Subject Property conditions and the historic uses of the Subject Property to the extent that they have not been contradicted by data obtained from other individuals or regulatory agency database searches.

CSC has performed this work, made findings, and proposed recommendations described in this report in accordance with the ASTM Standard Practice for Environmental Site Assessments E1527-13 and the *School Site Environmental Screening Criteria Checklist*. This warranty stands in lieu of all other warranties, expressed or implied. While this report can be used as a guide, it

must be understood that it is neither a rejection nor an endorsement of the Subject Property as an operating school site.

## 12.0 STATEMENT OF INDEPENDENCE

CSC is a privately held company and is not affiliated with any financial institution or other corporate entity. CSC is retained as an independent contractor to LAUSD to provide objective, impartial investigatory or analytical services regarding environmentally regulated hazardous or toxic materials.

CSC has no present or contemplated future ownership interest or financial interest in the real estate that is the subject of this Environmental Assessment Report; and CSC has no personal interest with respect to the subject matter of the Environmental Assessment Report or the parties involved. CSC has no relationship with the Subject Property or the owners thereof that would prevent an independent analysis of the environmental or other conditions of the Subject Property.

## 13.0 ADDITIONAL SERVICES

Additional services such as investigation of non-scope considerations and/or business environmental risk issues (*e.g.*, asbestos-containing building materials, radon, lead-based paint, mold, lead in drinking water, wetlands, regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality [excluding vapor encroachment conditions] and high-voltage power lines), a broader scope of assessment, more detailed conclusions, liability/risk evaluations, remediation techniques, etc., are beyond the scope of services under Title 40 CFR Part 312 and are not included in this Phase I ESA except as noted in Section 2.2 entitled *Scope of Services*.

CSC contacted individual agency sources in order to obtain information pertaining to the Subject Property and the surrounding vicinity. These sources are identified in Appendix I of this report.

## 14.0 REFERENCES

See Appendix I.

## 15.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

Joan V. Greenwood

Digitally signed by Joan V. Greenwood
DN: cn=Joan V. Greenwood, o=Clark Seif Clark, Inc., ou=Environmental Services, email=jgreenwood@csceng.com, c=US
Date: 2016.06.07 16:58:46 -07'00'

R.E.A. and Certified Strategic Environmental Manager
Quality Assurance Officer

Jeffrey L. Bannon, P.G.
Vice President of Environmental Services

## 16.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Ms. Greenwood and Mr. Bannon declare that to the best of our knowledge and belief, we meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312 and that we have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

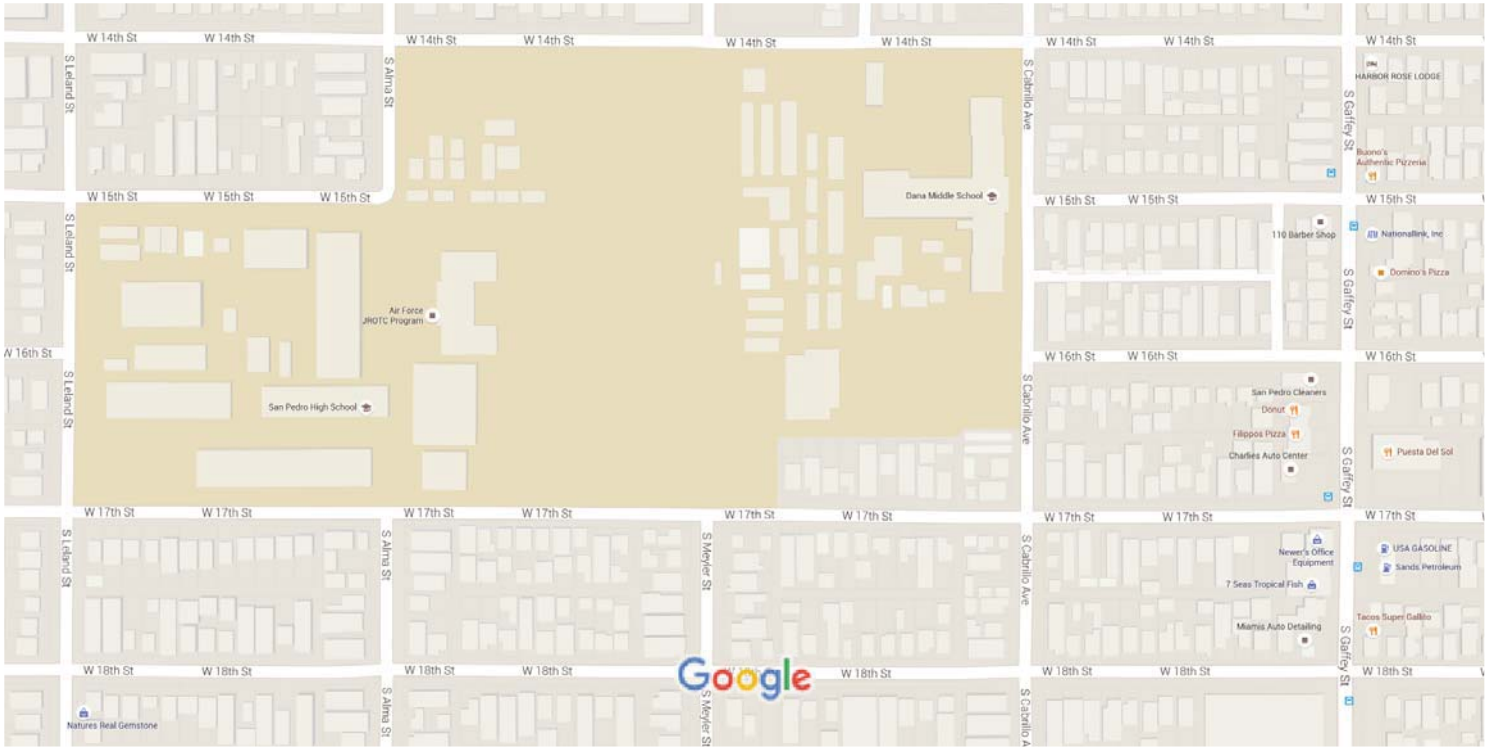
Ms. Greenwood's and Mr. Bannon's specific qualifications are provided in Appendix J of this report.

## 17.0 LIST OF APPENDICES

Subject Property Photographs ..... Appendix A
Aerial Photographs ..... Appendix B
Sanborn Fire Insurance Maps ..... Appendix C
Historic Topographical Maps ..... Appendix D
EDR Radius Map Report with GeoCheck ..... Appendix E
City Directory Abstracts ..... Appendix F
City of Los Angeles Building Department Permits ..... Appendix G
School Site Environmental Screening Criteria Checklist ..... Appendix H
References ..... Appendix I
Environmental Professional(s) Qualifications ..... Appendix J
Supplemental Documentation ..... Appendix K

# FIGURE 1: LOCATION MAP

Google Maps



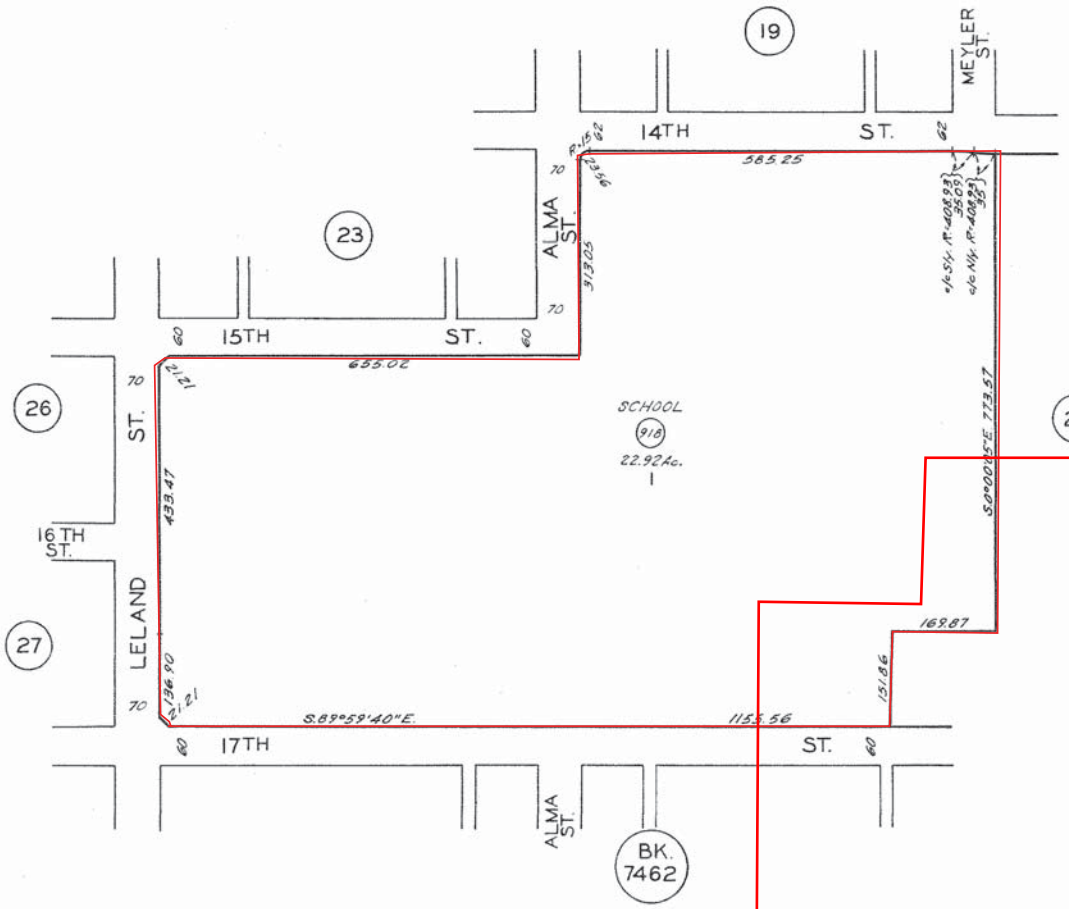

Google Maps

# FIGURE 2: ASSESSOR'S PARCEL MAP

7458 24

200'

730604/02




ZONE
14

FOR PREV. ASSMT SEE
987-33
7458-25

TRACT NO. 23794

M.B. 827-60-61

ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.

## Parcel Details

- Property records are kept at the South District Office
- How frequently is this site updated?
  (and other FAQs)

### Property Information

| | |
|---|---|
| **Assessor's ID No:** | 7458-024-918 |
| **Address:** | 1001 W 15TH ST LOS ANGELES CA 90731 |
| **Property Type:** | Other |
| **Region / Cluster:** | 14 / 14186 |
| **Tax Rate Area (TRA):** | 00014 |

- View Assessor Map
- View Index map

### Recent Sales Information

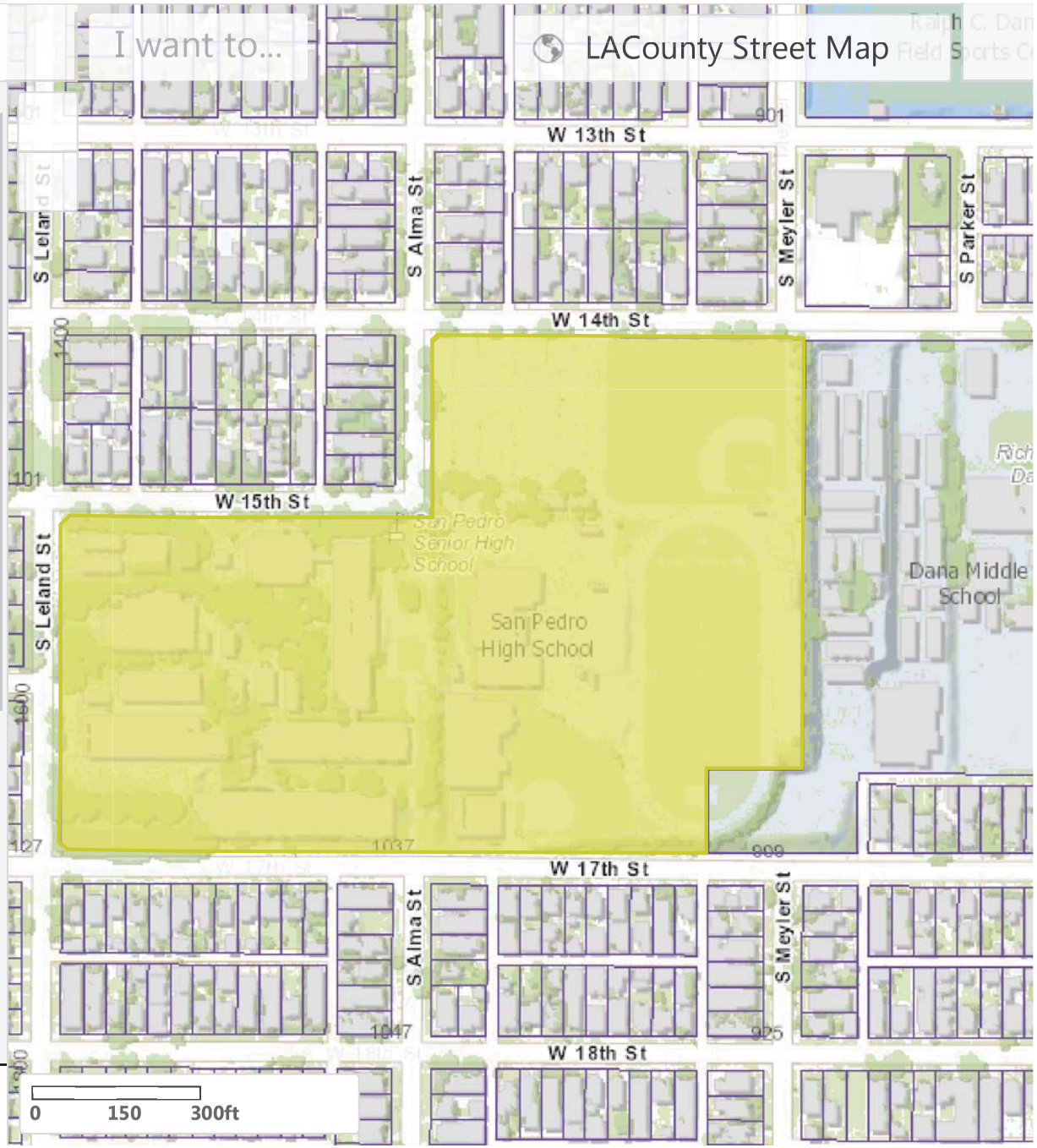
**Latest Sale Date:**

**Indicated Sale Price:**

Search for Recent Sales

### 2015 Roll Values

| | |
|---|---|
| **Recording Date:** | 00/00/1973 |
| **Land:** | $0 |
| **Improvements:** | $0 |
| **Personal Property:** | $0 |
| **Fixtures:** | $0 |
| **Homeowners':** | $0 |



# FIGURE 3: CAMPUS MAP

## LEGEND

**FCI RANGES**

- 90-100%
- 60-89%
- 30-59%
- 0-29%

**PORTABLES**

**AB 300 LIST**

S

**HISTORIC**

- H-P PRIMARY
- H-S SECONDARY
- H-T TERTIARY

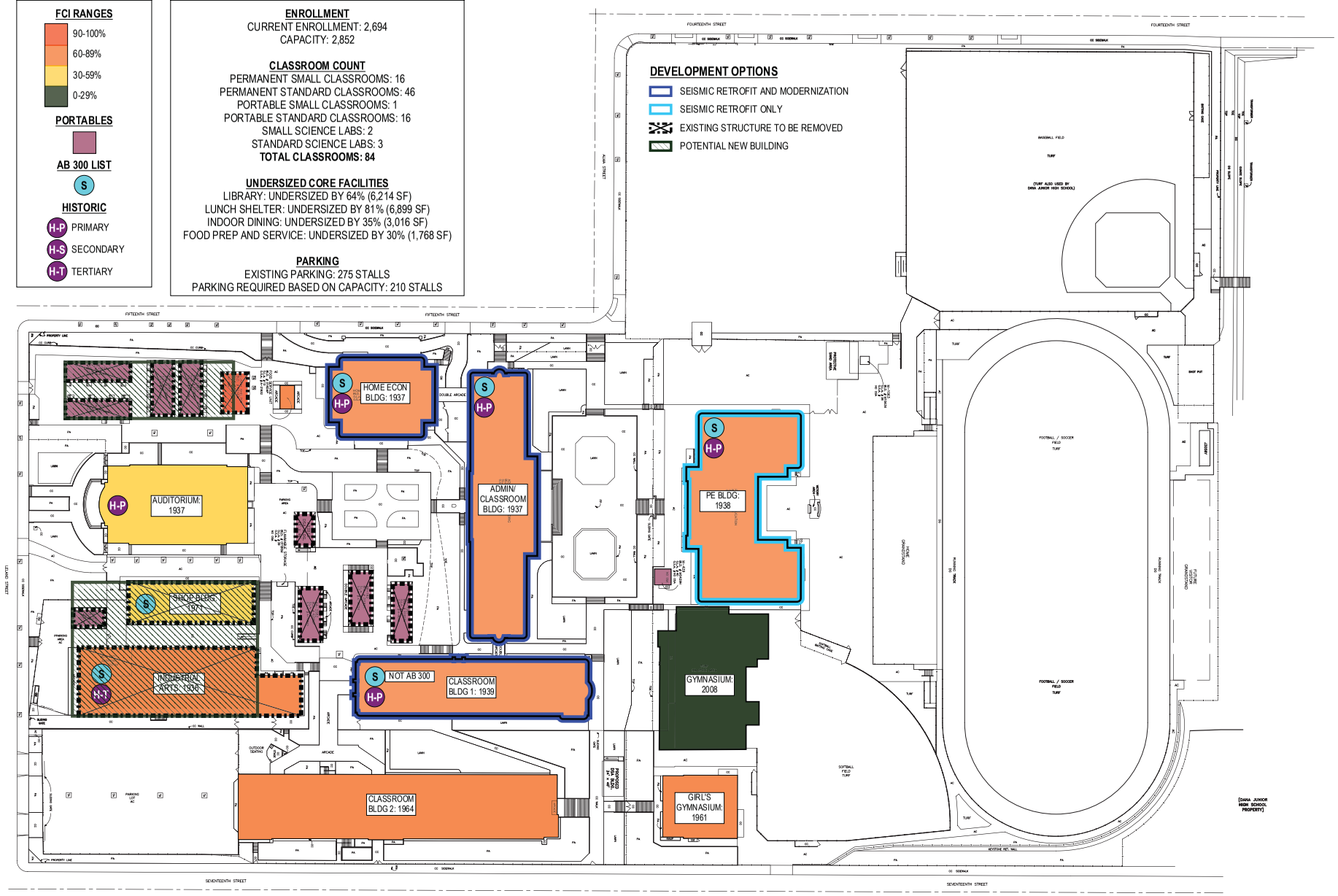
## PROGRAM

**ENROLLMENT**
CURRENT ENROLLMENT: 2,694
CAPACITY: 2,852

**CLASSROOM COUNT**
PERMANENT SMALL CLASSROOMS: 16
PERMANENT STANDARD CLASSROOMS: 46
PORTABLE SMALL CLASSROOMS: 1
PORTABLE STANDARD CLASSROOMS: 16
SMALL SCIENCE LABS: 2
STANDARD SCIENCE LABS: 3
**TOTAL CLASSROOMS: 84**

**UNDERSIZED CORE FACILITIES**
LIBRARY: UNDERSIZED BY 64% (6,214 SF)
LUNCH SHELTER: UNDERSIZED BY 81% (6,899 SF)
INDOOR DINING: UNDERSIZED BY 35% (3,016 SF)
FOOD PREP AND SERVICE: UNDERSIZED BY 30% (1,768 SF)

**PARKING**
EXISTING PARKING: 275 STALLS
PARKING REQUIRED BASED ON CAPACITY: 210 STALLS




SAN PEDRO HS

# APPENDIX A

# SUBJECT PROPERTY PHOTOGRAPHS

## PHOTOGRAPHS



Photo 1: Gas Bunker




Photo 2: Gas Bunker




Photo 3: Plant Manager's Room

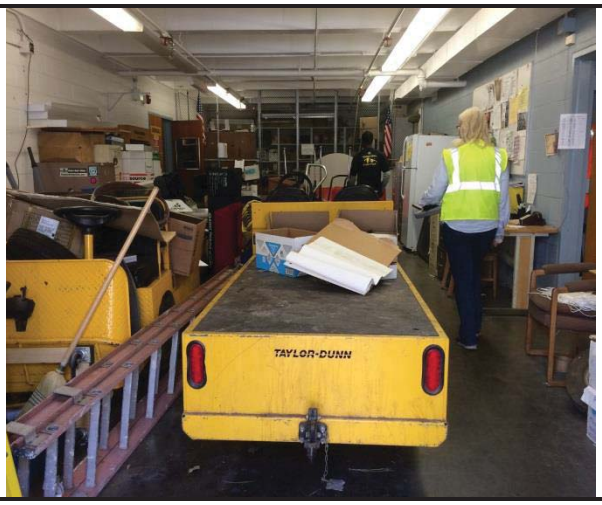



Photo 4: Inside Plant Manager's Room




Photo 5: Plant Manager's Chemical Storage Room




Photo 6: Plant Manager's Chemical Storage Room



Photo 7: Plant Manager's Chemical Storage Room

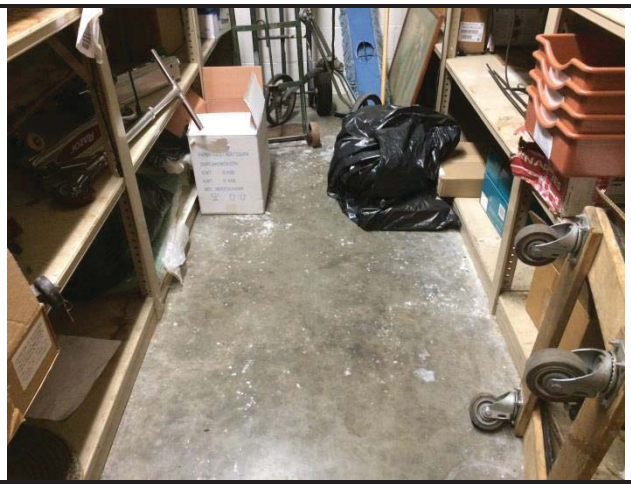


Photo 8: Plant Manager's Chemical Storage Room

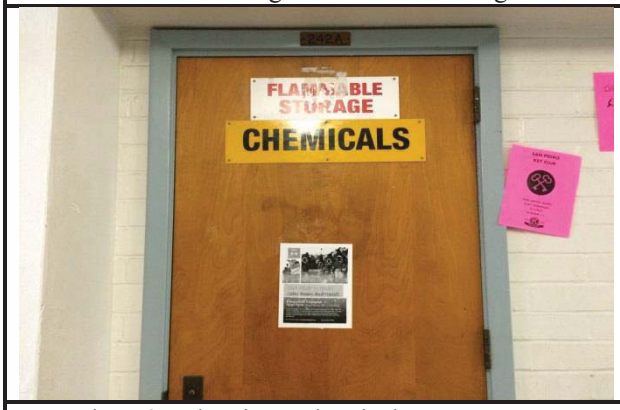



Photo 9: Chemistry Chemical Storage Room



Photo 10: Chemistry Chemical Storage Room



Photo 11: Chemistry Chemical Storage Room




Photo 12: Chemistry Chemical Storage Room




Photo 13: Main Boiler Room 1




Photo 14: Main Boiler Room 1




Photo 15: Photoshop Dark Room




Photo 16: Photoshop Dark Room



Photo 17: Boiler Room 2



Photo 18: Boiler Room 2




Photo 19: Interior Flammables Storage Bunker

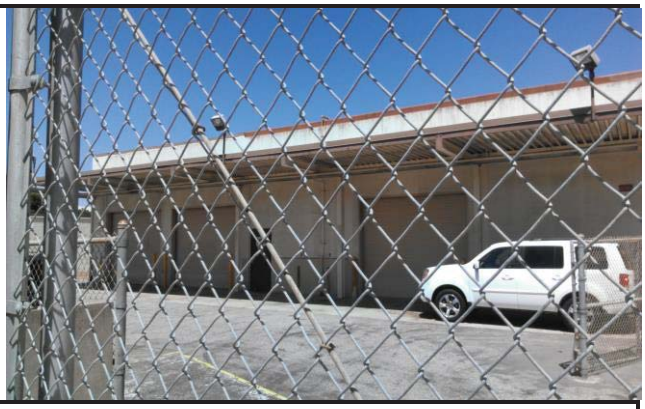


Photo 20: Vehicle Parked Over Clarifier




Photo 21: Door to Electrical Vault in Administration Building Basement

# APPENDIX B

# AERIAL PHOTOGRAPHS

San Pedro High School
1001 W 15th Street
San Pedro, CA 90731

Inquiry Number: 4583327.12
April 07, 2016

# The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# EDR Aerial Photo Decade Package

04/07/16

**Site Name:**

San Pedro High School
1001 W 15th Street
San Pedro, CA 90731
EDR Inquiry # 4583327.12

**Client Name:**

Clark Seif Clark, Inc.
110 Pine Avenue
Long Beach, CA 90802
Contact: Natalia Guerra

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

***Search Results:***

| Year | Scale | Details | Source |
|---|---|---|---|
| 2012 | 1"=500' | Flight Year: 2012 | USDA/NAIP |
| 2010 | 1"=500' | Flight Year: 2010 | USDA/NAIP |
| 2009 | 1"=500' | Flight Year: 2009 | USDA/NAIP |
| 2005 | 1"=500' | Flight Year: 2005 | USDA/NAIP |
| 2002 | 1"=500' | Flight Date: June, 10 2002 | USGS |
| 1994 | 1"=500' | Acquisition Date: May, 31 1994 | USGS/DOQQ |
| 1990 | 1"=500' | Flight Date: September, 07 1990 | USGS |
| 1989 | 1"=500' | Flight Date: August, 22 1989 | USGS |
| 1983 | 1"=500' | Flight Date: November, 19 1983 | EDR Proprietary Brewster Pacific |
| 1981 | 1"=500' | Flight Date: February, 21 1981 | EDR Proprietary Brewster Pacific |
| 1977 | 1"=500' | Flight Date: January, 18 1977 | EDR Proprietary Brewster Pacific |
| 1963 | 1"=500' | Flight Date: February, 28 1963 | USGS |
| 1953 | 1"=500' | Flight Date: April, 06 1953 | USGS |
| 1947 | 1"=500' | Flight Date: January, 01 1947 | Fairchild |
| 1928 | 1"=500' | Flight Date: January, 01 1928 | USGS |

**When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.**


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INQUIRY #: 4583327.12
YEAR: 2012
= 500'
N
EDR


INQUIRY #: 4583327.12
YEAR: 2010
= 500'
N
EDR


INQUIRY #: 4583327.12
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 4583327.12
YEAR: 2005
= 500'
N
EDR



INQUIRY #: 4583327.12

YEAR: 2002

= 500'

N

EDR



INQUIRY #: 4583327.12

YEAR: 1994

= 500'

N

EDR

# APPENDIX C

# SANBORN FIRE INSURANCE MAPS

San Pedro High School
1001 W 15th Street
San Pedro, CA 90731

Inquiry Number: 4583327.3
April 21, 2016

# Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# Certified Sanborn® Map Report

04/21/16

**Site Name:**

San Pedro High School
1001 W 15th Street
San Pedro, CA 90731
EDR Inquiry # 4583327.3

**Client Name:**

Clark Seif Clark, Inc.
110 Pine Avenue
Long Beach, CA 90802
Contact: Natalia Guerra

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Clark Seif Clark, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

## *Certified Sanborn Results:*

**Certification #** C9E4-4B37-A98F

**PO #** NA

**Project** San Pedro High School

Maps Provided:

1969
1950
1921

Sanborn® Library search results

Certification #: C9E4-4B37-A98F

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

*The Sanborn Library LLC Since 1866™*

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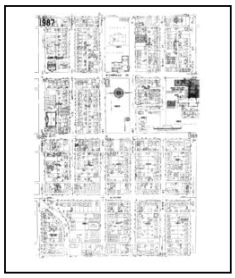
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## *Sanborn Sheet Key*

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

### 1969 Source Sheets



Volume 19, Sheet 1987



Volume 19, Sheet 1988

### 1950 Source Sheets



Volume 19, Sheet 1987



Volume 19, Sheet 1988

### 1921 Source Sheets



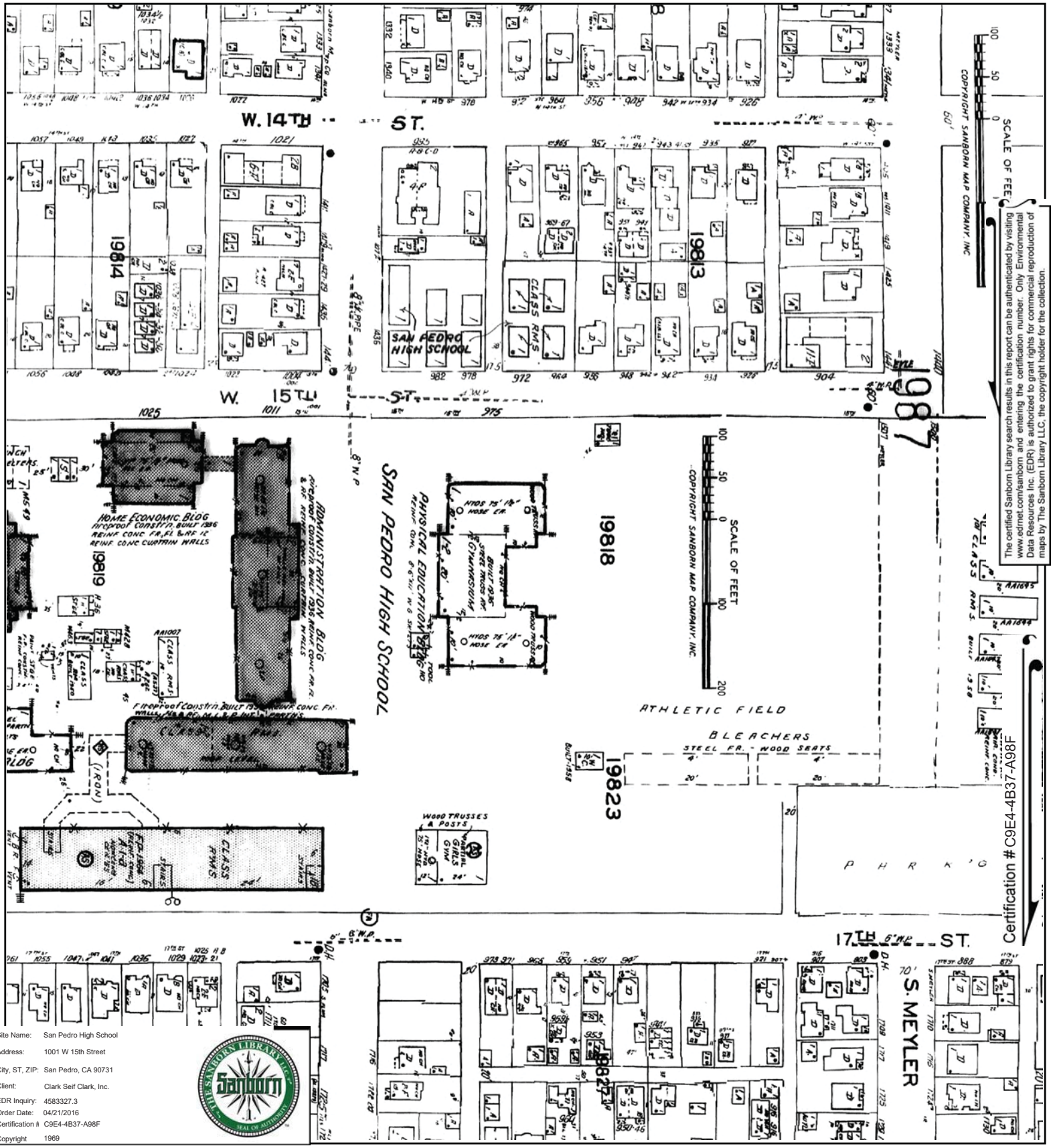
Volume 19, Sheet 1987



Volume 19, Sheet 1988

# Certified Sanborn® Map

1969

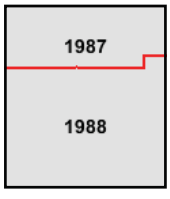



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| | |
|---|---|
| Site Name: | San Pedro High School |
| Address: | 1001 W 15th Street |
| City, ST, ZIP: | San Pedro, CA 90731 |
| Client: | Clark Seif Clark, Inc. |
| EDR Inquiry: | 4583327.3 |
| Order Date: | 04/21/2016 |
| Certification # | C9E4-4B37-A98F |
| Copyright | 1969 |

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.



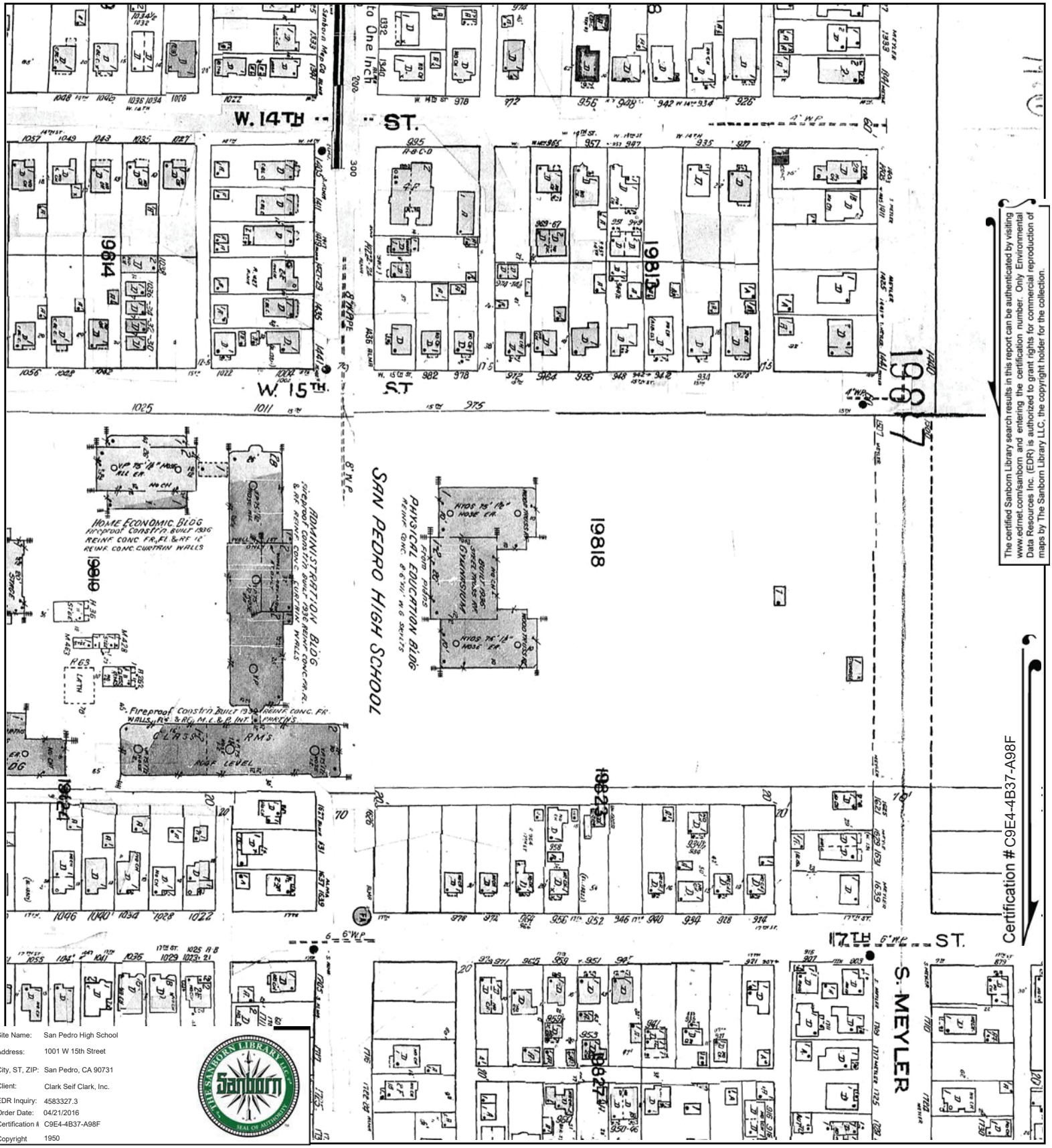



Volume 19, Sheet 1988
Volume 19, Sheet 1987

0 Feet 150 300 600

# Certified Sanborn® Map

1950




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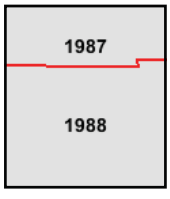
Certification # C9E4-4B37-A98F

| | |
|---|---|
| Site Name: | San Pedro High School |
| Address: | 1001 W 15th Street |
| City, ST, ZIP: | San Pedro, CA 90731 |
| Client: | Clark Seif Clark, Inc. |
| EDR Inquiry: | 4583327.3 |
| Order Date: | 04/21/2016 |
| Certification # | C9E4-4B37-A98F |
| Copyright | 1950 |

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Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600



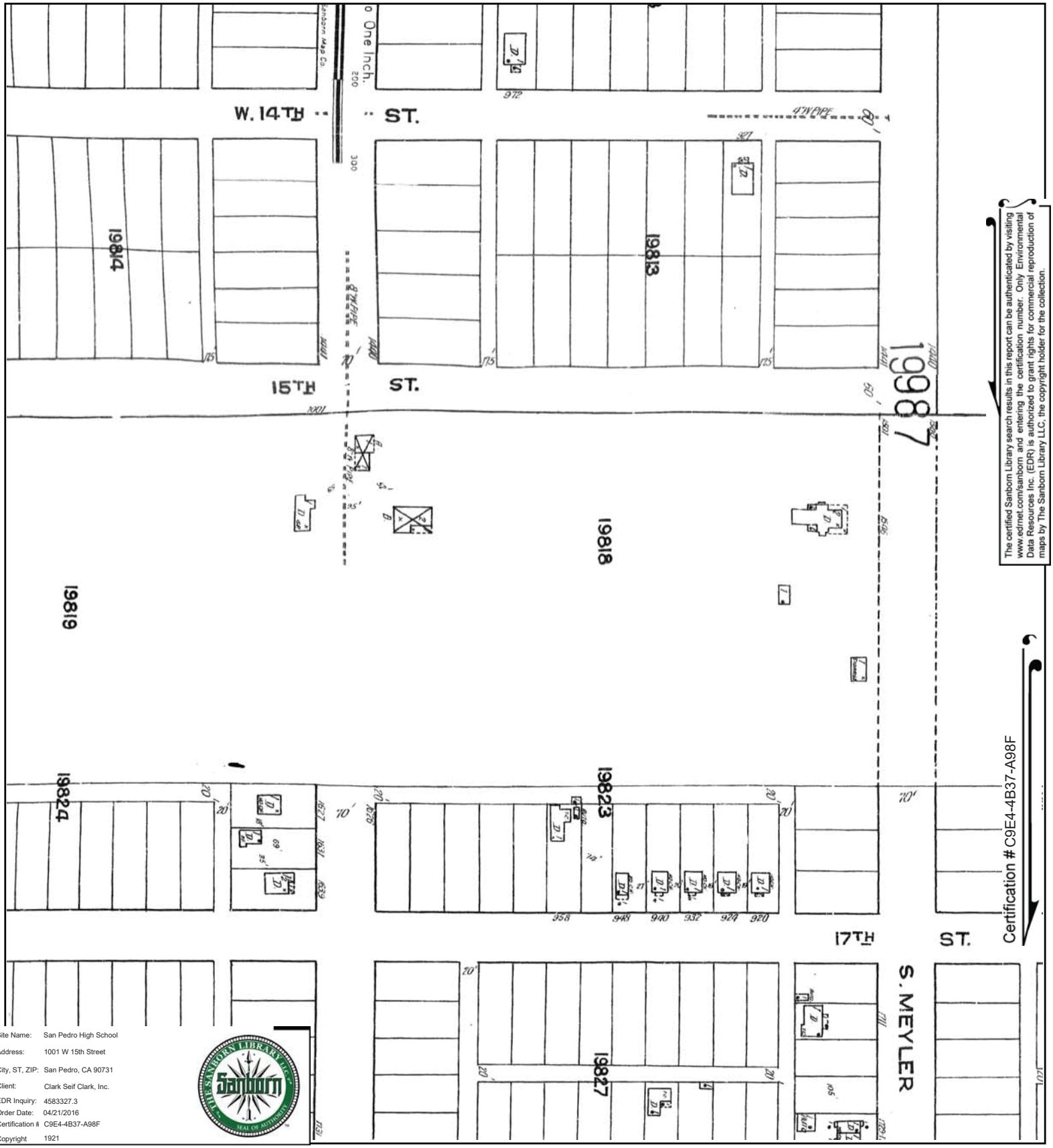



Volume 19, Sheet 1988
Volume 19, Sheet 1987

N

# Certified Sanborn® Map

1921



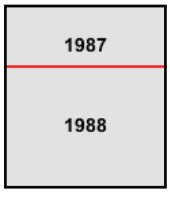

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|---|---|
| Site Name: | San Pedro High School |
| Address: | 1001 W 15th Street |
| City, ST, ZIP: | San Pedro, CA 90731 |
| Client: | Clark Seif Clark, Inc. |
| EDR Inquiry: | 4583327.3 |
| Order Date: | 04/21/2016 |
| Certification # | C9E4-4B37-A98F |
| Copyright | 1921 |

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600






Volume 19, Sheet 1988
Volume 19, Sheet 1987

N

# APPENDIX D

# HISTORIC TOPOGRAPHIC MAPS

San Pedro High School
1001 W 15th Street
San Pedro, CA 90731

Inquiry Number: 4583327.4
April 05, 2016

# EDR Historical Topo Map Report

## with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# EDR Historical Topo Map Report

04/05/16

**Site Name:**

San Pedro High School
1001 W 15th Street
San Pedro, CA 90731
EDR Inquiry # 4583327.4

**Client Name:**

Clark Seif Clark, Inc.
110 Pine Avenue
Long Beach, CA 90802
Contact: Natalia Guerra

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Clark Seif Clark, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

***Search Results:***

**P.O.#** NA
**Project:** San Pedro High School

***Coordinates:***

| | |
|---|---|
| **Latitude:** | 33.73002 33° 43' 48" North |
| **Longitude:** | -118.298674 -118° 17' 55" West |
| **UTM Zone:** | Zone 11 North |
| **UTM X Meters:** | 379688.21 |
| **UTM Y Meters:** | 3732978.99 |
| **Elevation:** | 0.00' above sea level |

**Maps Provided:**

| | |
|---|---|
| 2012 | 1896 |
| 1981 | |
| 1972 | |
| 1964 | |
| 1951 | |
| 1944 | |
| 1925 | |
| 1923 | |

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## *Topo Sheet Key*

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 2012 Source Sheets



San Pedro

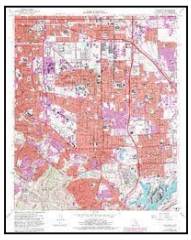
7.5-minute, 24000



Torrance

7.5-minute, 24000

### 1981 Source Sheets



Torrance

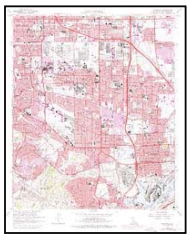
7.5-minute, 24000
Photo Revised 1981
Aerial Photo Revised 1978



San Pedro

7.5-minute, 24000
Photo Revised 1981
Aerial Photo Revised 1979

### 1972 Source Sheets



Torrance

7.5-minute, 24000
Photo Revised 1972
Aerial Photo Revised 1972



San Pedro

7.5-minute, 24000
Photo Revised 1972
Aerial Photo Revised 1972

### 1964 Source Sheets



Torrance

7.5-minute, 24000
Aerial Photo Revised 1963



San Pedro

7.5-minute, 24000
Aerial Photo Revised 1963

## *Topo Sheet Key*

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1951 Source Sheets



San Pedro

7.5-minute, 24000
Aerial Photo Revised 1947



Torrance

7.5-minute, 24000
Aerial Photo Revised 1947

### 1944 Source Sheets



San Pedro

15-minute, 62500
Aerial Photo Revised 1940

### 1925 Source Sheets



Wilmington

7.5-minute, 24000



San Pedro Hills

7.5-minute, 24000

### 1923 Source Sheets



Wilmington

7.5-minute, 24000

## *Topo Sheet Key*

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1896 Source Sheets



San Pedro

15-minute, 62500



Redondo

15-minute, 62500

# Historical Topo Map

2012




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

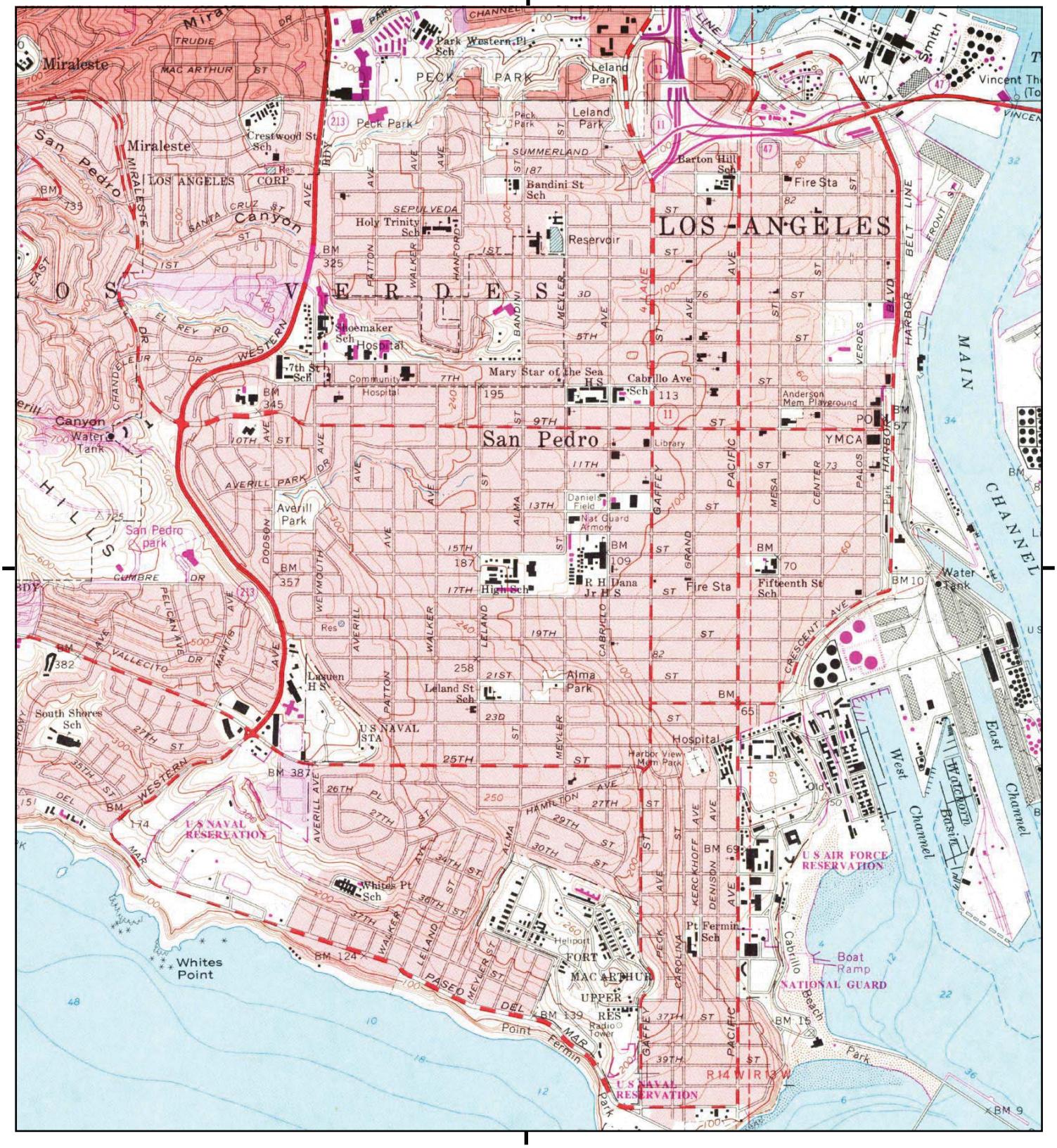
TP, San Pedro, 2012, 7.5-minute
N, Torrance, 2012, 7.5-minute

SITE NAME: San Pedro High School
ADDRESS: 1001 W 15th Street
San Pedro, CA 90731
CLIENT: Clark Seif Clark, Inc.

N

# Historical Topo Map

1981




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

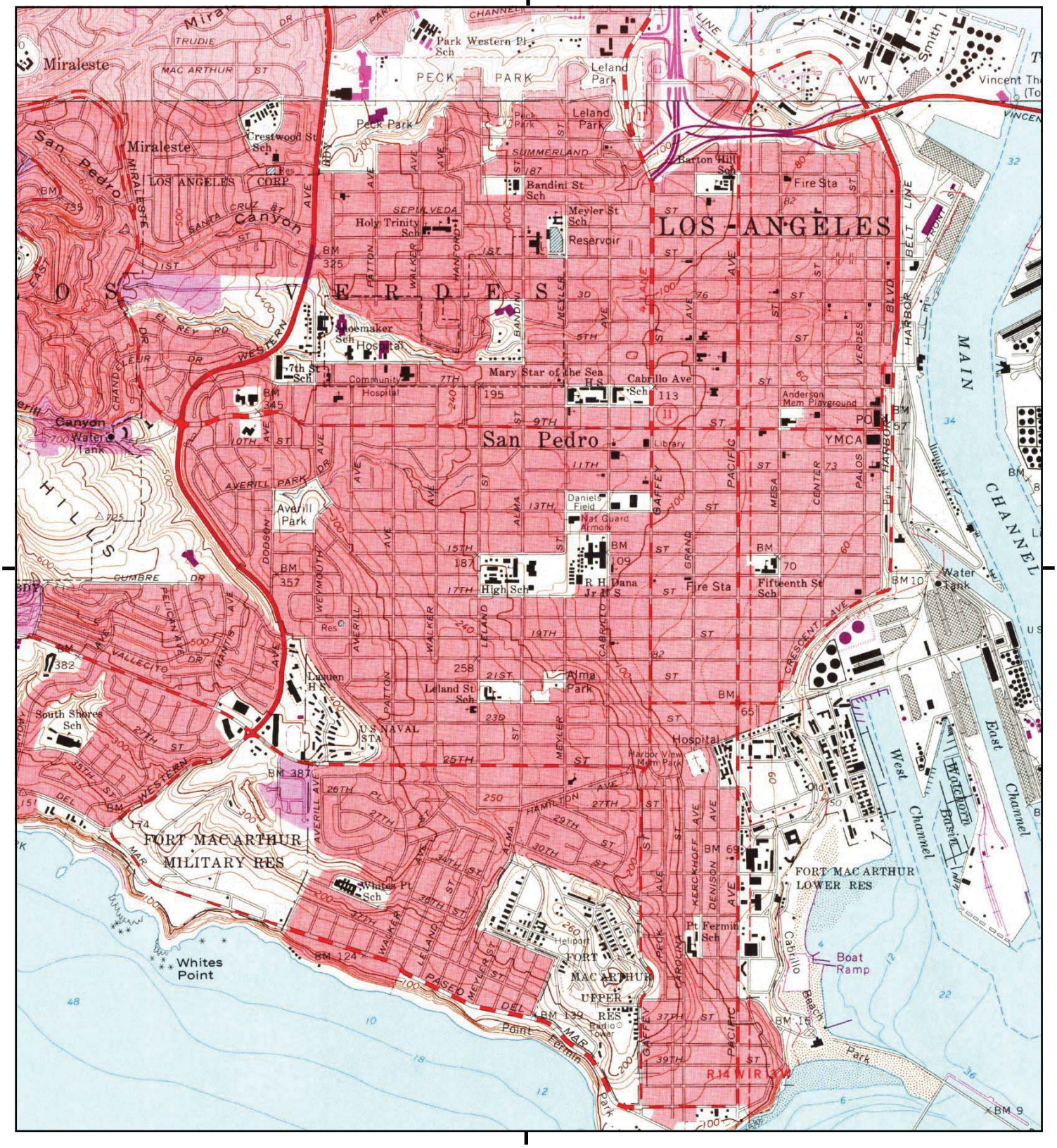
TP, San Pedro, 1981, 7.5-minute
N, Torrance, 1981, 7.5-minute

SITE NAME: San Pedro High School
ADDRESS: 1001 W 15th Street
San Pedro, CA 90731
CLIENT: Clark Seif Clark, Inc.

N

# Historical Topo Map

1972




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

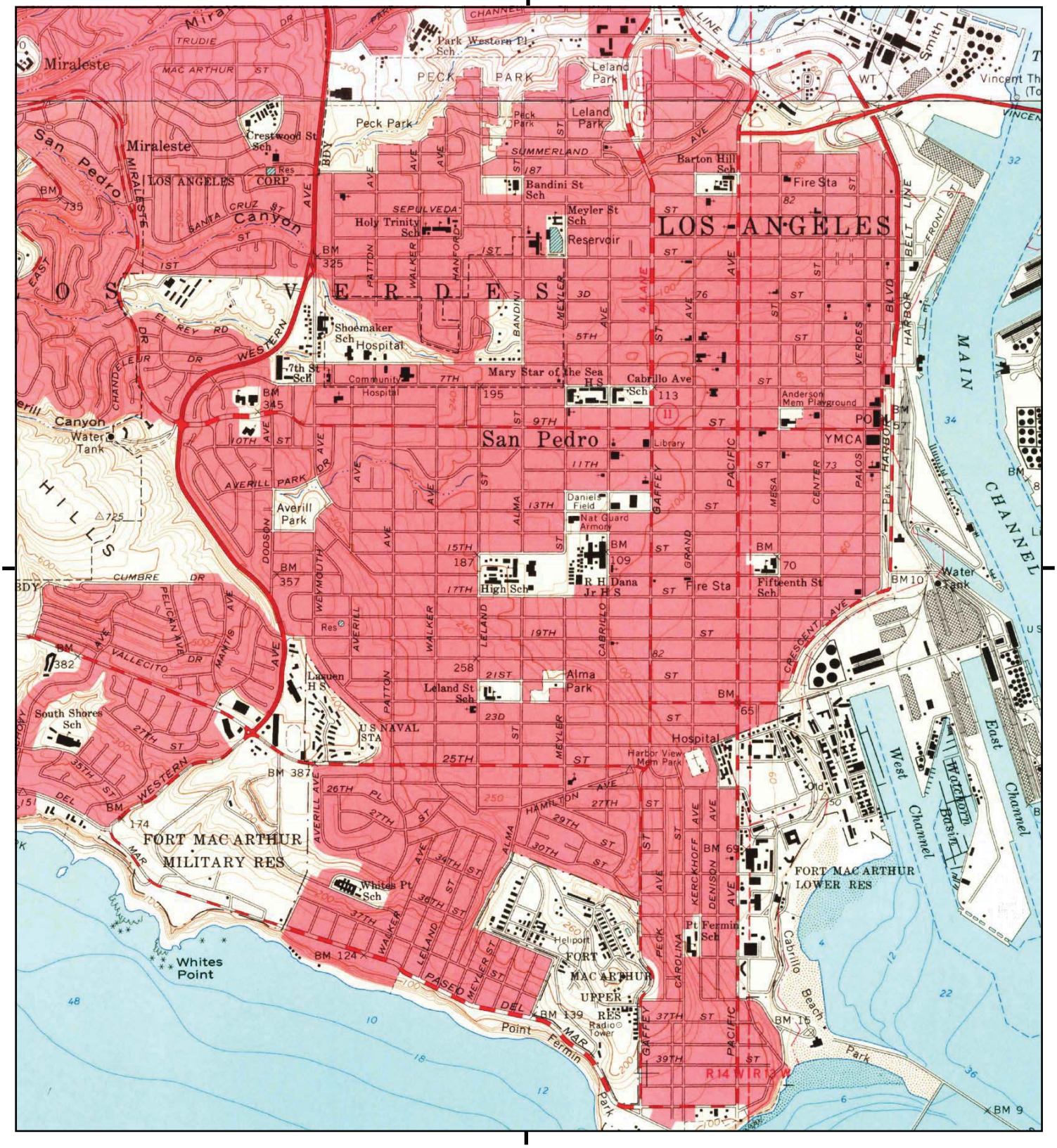
TP, San Pedro, 1972, 7.5-minute
N, Torrance, 1972, 7.5-minute

SITE NAME: San Pedro High School
ADDRESS: 1001 W 15th Street
San Pedro, CA 90731
CLIENT: Clark Seif Clark, Inc.

N

# Historical Topo Map

1964




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

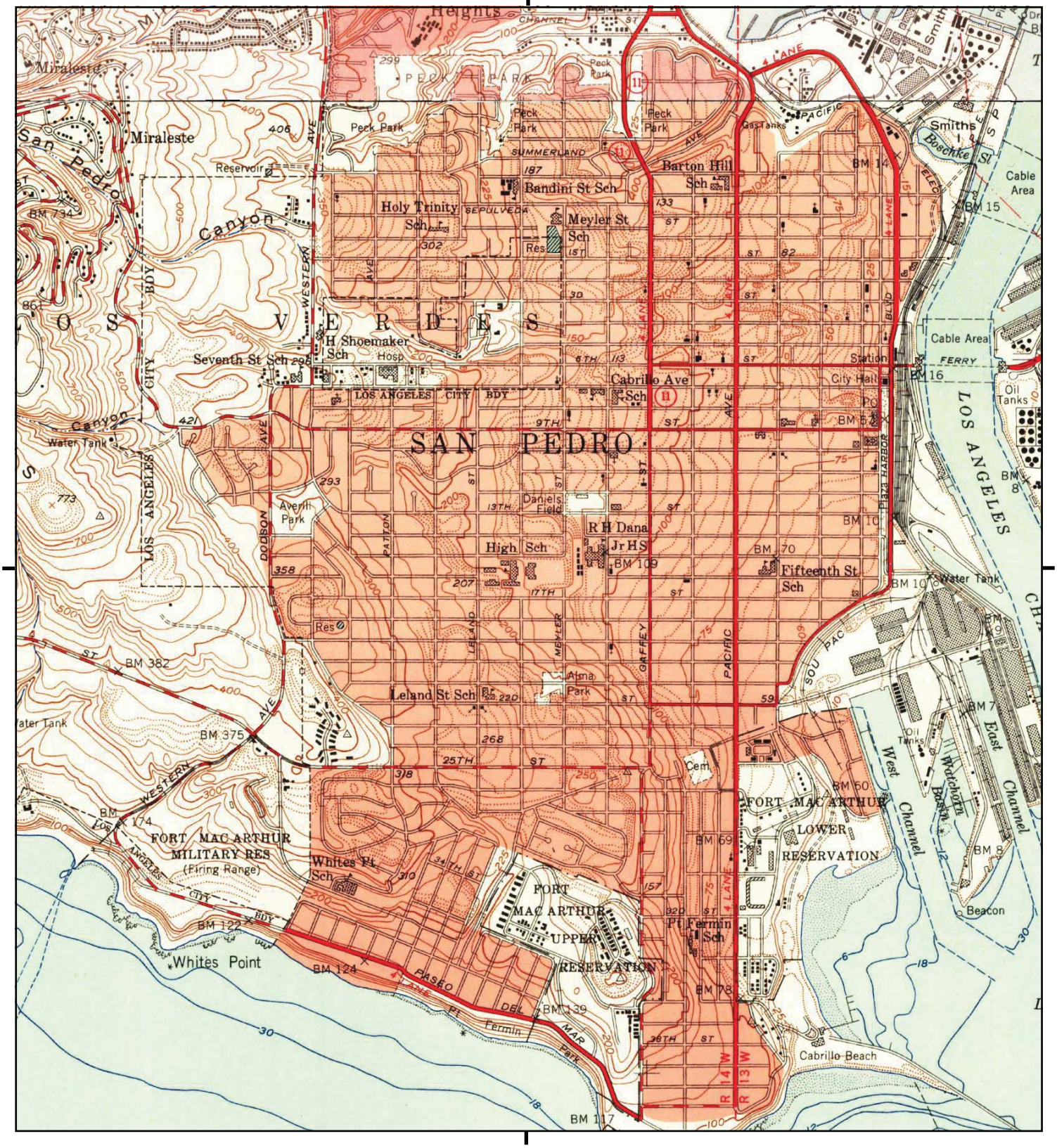
TP, San Pedro, 1964, 7.5-minute
N, Torrance, 1964, 7.5-minute

SITE NAME: San Pedro High School
ADDRESS: 1001 W 15th Street
San Pedro, CA 90731
CLIENT: Clark Seif Clark, Inc.

N

# Historical Topo Map

1951




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

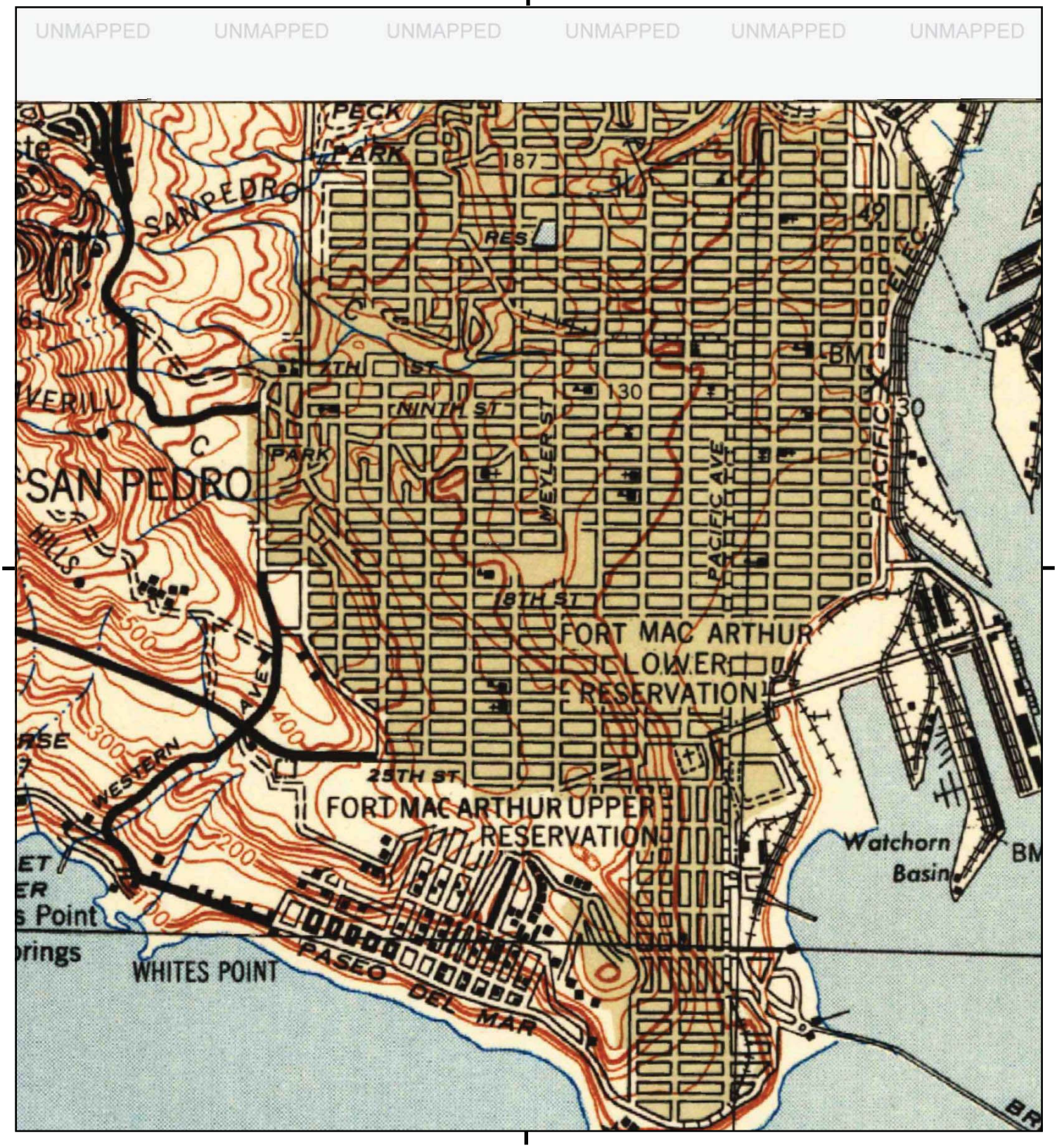
TP, San Pedro, 1951, 7.5-minute
N, Torrance, 1951, 7.5-minute

SITE NAME: San Pedro High School
ADDRESS: 1001 W 15th Street
San Pedro, CA 90731
CLIENT: Clark Seif Clark, Inc.

N

# Historical Topo Map

1944




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

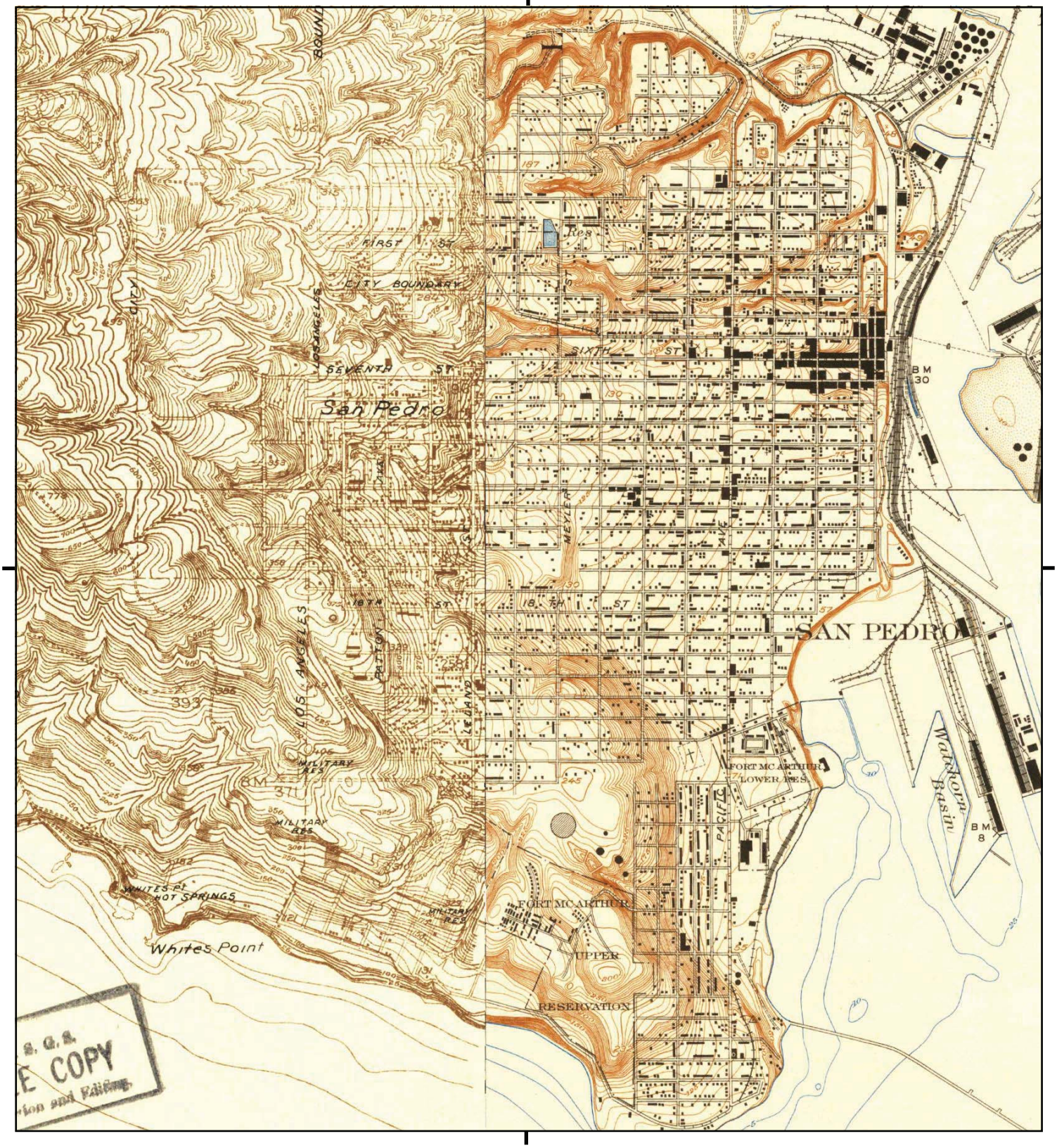
TP, San Pedro, 1944, 15-minute

SITE NAME: San Pedro High School
ADDRESS: 1001 W 15th Street
San Pedro, CA 90731
CLIENT: Clark Seif Clark, Inc.

N

# Historical Topo Map

1925




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

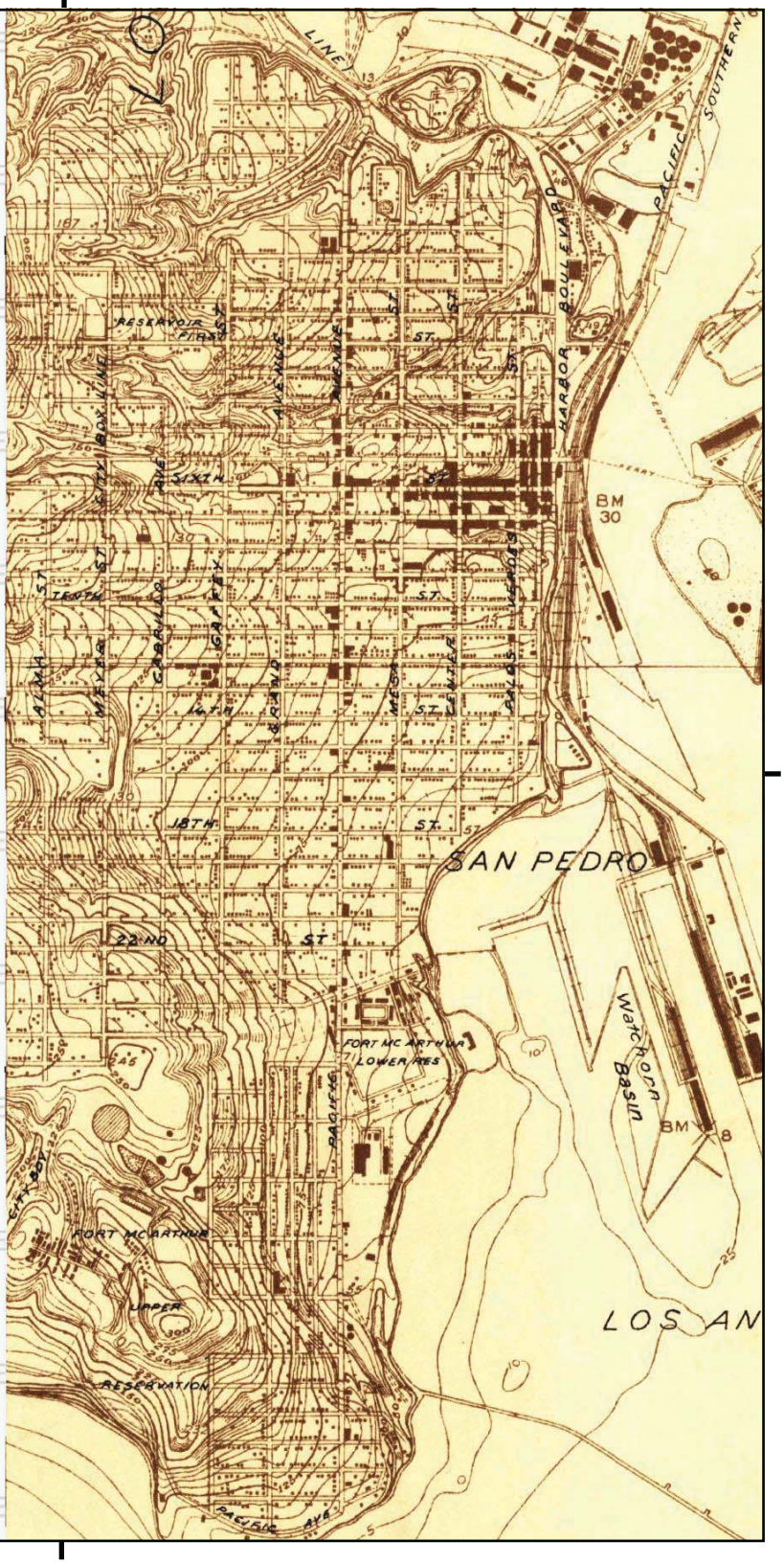
TP, Wilmington, 1925, 7.5-minute
W, San Pedro Hills, 1925, 7.5-minute

SITE NAME: San Pedro High School
ADDRESS: 1001 W 15th Street
San Pedro, CA 90731
CLIENT: Clark Seif Clark, Inc.

N

# Historical Topo Map

1923




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

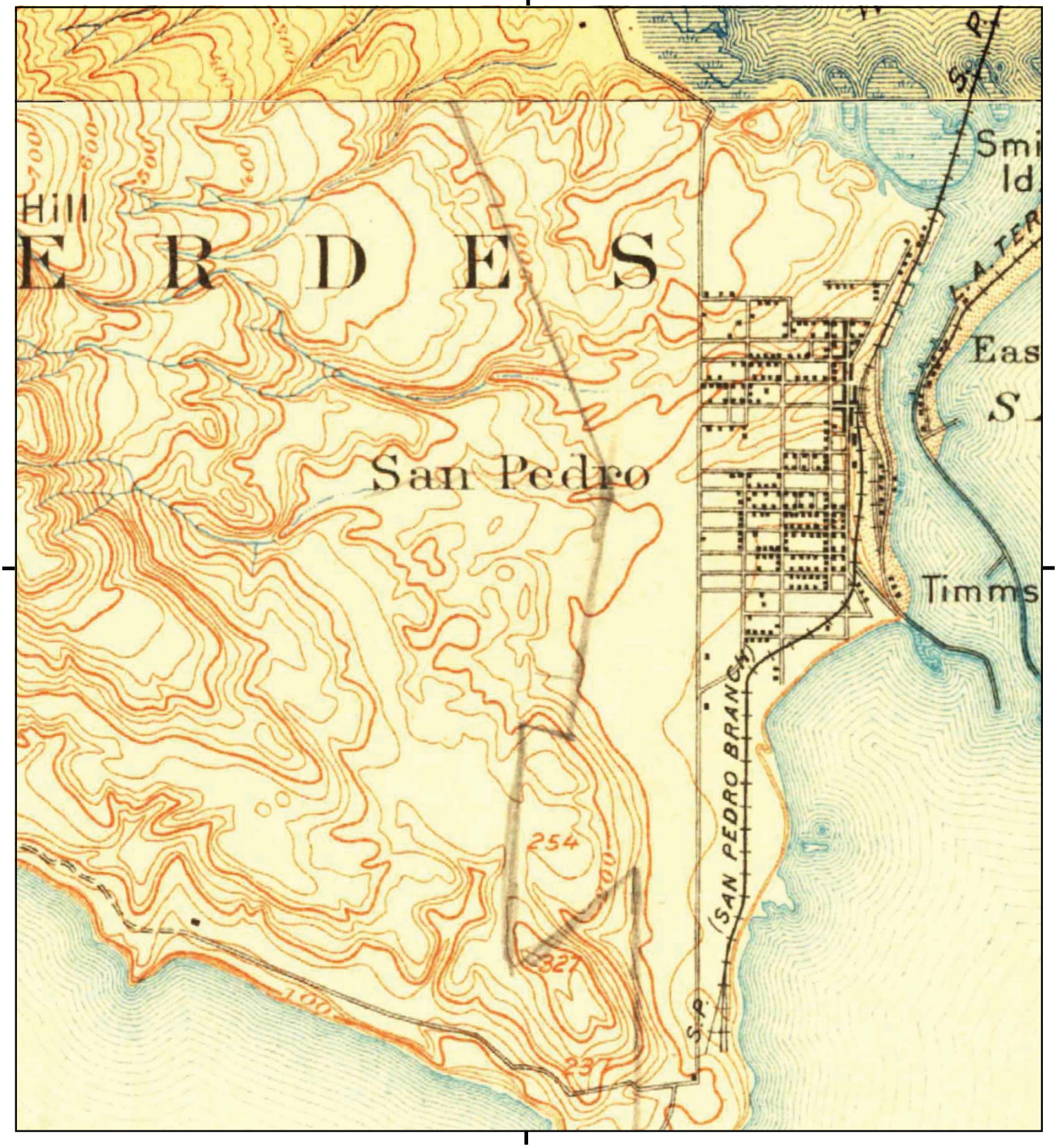
TP, Wilmington, 1923, 7.5-minute

SITE NAME: San Pedro High School
ADDRESS: 1001 W 15th Street
San Pedro, CA 90731
CLIENT: Clark Seif Clark, Inc.

N

# Historical Topo Map

1896




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, San Pedro, 1896, 15-minute
NW, Redondo, 1896, 15-minute

SITE NAME: San Pedro High School
ADDRESS: 1001 W 15th Street
San Pedro, CA 90731
CLIENT: Clark Seif Clark, Inc.

N

# APPENDIX E

# EDR RADIUS MAP REPORT WITH GEOCHECK

**San Pedro High School**
1001 W 15th Street
San Pedro, CA 90731

Inquiry Number: 4583327.2s
April 05, 2016

# The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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**GEOCHECK ADDENDUM**

| | |
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***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.


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# EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

## TARGET PROPERTY INFORMATION

### ADDRESS

1001 W 15TH STREET
SAN PEDRO, CA 90731

### COORDINATES

| | |
|---|---|
| Latitude (North): | 33.7300200 - 33° 43' 48.07'' |
| Longitude (West): | 118.2986740 - 118° 17' 55.22'' |
| Universal Tranverse Mercator: | Zone 11 |
| UTM X (Meters): | 379685.5 |
| UTM Y (Meters): | 3732785.5 |
| Elevation: | 180 ft. above sea level |

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

| | |
|---|---|
| Target Property Map: | 5640434 SAN PEDRO, CA |
| Version Date: | 2012 |

### AERIAL PHOTOGRAPHY IN THIS REPORT

| | |
|---|---|
| Portions of Photo from: | 20120428, 20120505 |
| Source: | USDA |

## MAPPED SITES SUMMARY

Target Property Address:
1001 W 15TH STREET
SAN PEDRO, CA 90731

Click on Map ID to see full detail.

| MAP ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---|---|---|---|---|---|
| A1 | LAUSD-SAN PEDRO HIGH | 1001 W 15TH ST | RCRA-SQG, FINDS, EMI, ECHO | | TP |
| A2 | LAUSD/ SAN PEDRO HS | 1001 W 15TH ST | HAZNET | | TP |
| Reg | FORT MACARTHUR | | DOD | Same | 2644, 0.501, South |
| 3 | | 921 W 17TH ST | EDR Hist Auto | Lower | 46, 0.009, SE |
| 4 | | 1056 W 15TH ST | EDR Hist Cleaner | Higher | 49, 0.009, WNW |
| 5 | FRANK'S AUTO SERVICE | 1103 S MEYLER ST | SWEEPS UST, CA FID UST | Lower | 922, 0.175, NNE |
| B6 | MOBIL SS# 11-MTD | 1637 S GAFFEY ST | UST | Lower | 1284, 0.243, East |
| B7 | MOBIL SERVICE STATIO | 1637 S GAFFEY ST | SWEEPS UST, CA FID UST | Lower | 1284, 0.243, East |
| B8 | CHAN KEE CHAE | 1637 S GAFFEY | HIST UST | Lower | 1284, 0.243, East |
| B9 | CHARLIES MOBIL | 1637 S GAFFEY ST | RCRA-SQG, HAZNET | Lower | 1284, 0.243, East |
| B10 | CHARLIES AUTO CTR | 1637 S GAFFEY | RCRA-SQG, FINDS, ECHO | Lower | 1284, 0.243, East |
| B11 | SAN-PEDRO CLEANER, S | 1603 S GAFFEY ST | DRYCLEANERS, EMI | Lower | 1286, 0.244, East |
| 12 | GAFFEY AND FIFTEENTH | 1500-1510 GAFFEY ST | LUST | Lower | 1303, 0.247, East |
| B13 | MOBIL #11-MTD | 1637 GAFFEY | LUST, HIST CORTESE | Lower | 1308, 0.248, East |
| B14 | THRIFTY #184 | 1706 GAFFEY | HIST CORTESE | Lower | 1309, 0.248, ESE |
| B15 | THRIFTY #184 | 1706 GAFFEY ST S | LUST | Lower | 1309, 0.248, ESE |
| B16 | THRIFTY OIL STN 184 | 1706 GAFFEY | HIST UST | Lower | 1309, 0.248, ESE |
| 17 | LA SEWER OFFICE BUIL | 1406 GAFFEY ST | RCRA-SQG, FINDS, ECHO | Lower | 1312, 0.248, ENE |
| 18 | PACIFIC STATES OIL C | | ENVIROSTOR | Lower | 1689, 0.320, ENE |
| C19 | GSV - SAN PEDRO BUSI | 2100 GAFFEY ST | LUST | Lower | 1872, 0.355, SE |
| C20 | BRAY TERMINAL | 2115 GAFFEY | LUST, SLIC, HIST CORTESE | Lower | 1911, 0.362, SE |
| 21 | CABRILLO ELEMENTARY | 732 SOUTH CABRILLO | ENVIROSTOR, SCH | Lower | 2095, 0.397, NNE |
| 22 | MOBIL SERVICE STATIO | 1001 GAFFEY ST S | LUST | Lower | 2120, 0.402, NE |
| D23 | SAN PEDRO CAR WASH | 735 S GAFFEY ST | LUST, UST, SWEEPS UST | Lower | 2514, 0.476, NE |
| E24 | AUTO BODY SHOP | 1505-1555 SOUTH PACI | ENVIROSTOR | Lower | 2545, 0.482, East |
| E25 | AUTO BODY SHOP | 1505-1555 SOUTH PACI | SEMS-ARCHIVE | Lower | 2545, 0.482, East |
| D26 | PCBNA BRANCH OFFICE | 740 GAFFEY ST | LUST | Lower | 2554, 0.484, NE |
| F27 | SHELL SERVICE STATIO | 1631 PACIFIC AVE. | LUST | Lower | 2627, 0.498, East |
| F28 | SHELL | 1631 PACIFIC | LUST, HIST CORTESE | Lower | 2627, 0.498, East |
| F29 | SHELL SERVICE STATIO | 1631 W PACIFIC | RCRA-SQG, LUST, FINDS, ECHO | Lower | 2627, 0.498, East |
| 30 | PACIFIC VIEW INVESTM | 1415-1460 W. 25TH ST | ENVIROSTOR | Higher | 3773, 0.715, SW |
| 31 | RICHARDS CLEANERS | 538 WEST 5TH STREET | RESPONSE, ENVIROSTOR, Cortese | Lower | 3840, 0.727, NE |
| 32 | LA DIST. ENGINEER OF | | ENVIROSTOR | Higher | 4239, 0.803, SW |
| 33 | LUCKY CLEANERS | 1609 W 25TH STREET | RCRA-SQG, ENVIROSTOR, VCP, DEED, FINDS,... | Higher | 4371, 0.828, WSW |
| 34 | WHITE POINT NIKE SIT | | ENVIROSTOR | Higher | 4548, 0.861, SW |
| 35 | OCEAN PARK CLEANERS | 114 N. GAFFEY STREET | ENVIROSTOR | Lower | 4577, 0.867, NNE |
| 36 | SOUTH REGION HIGH SC | 3200 SOUTH ALMA STRE | ENVIROSTOR, SCH, DEED, NPDES | Higher | 4743, 0.898, South |
| 37 | LA DIST OFF&STRG YD- | | ENVIROSTOR | Higher | 4826, 0.914, WSW |
| 38 | FORT MACARTHUR LOWER | 2901 ARTHUR MACARTHU | RESPONSE, ENVIROSTOR | Lower | 4853, 0.919, SE |

# EXECUTIVE SUMMARY

## TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

| Site | Database(s) | EPA ID |
|---|---|---|
| LAUSD-SAN PEDRO HIGH<br>1001 W 15TH ST<br>SAN PEDRO, CA 90731 | RCRA-SQG<br>EPA ID:: CAD982022642<br>FINDS<br>Registry ID:: 110002779244<br>EMI<br>Facility Id: 4395<br>ECHO | CAD982022642 |
| LAUSD/ SAN PEDRO HS<br>1001 W 15TH ST<br>SAN PEDRO, CA 90731 | HAZNET<br>GEPAID: CAD982022642 | N/A |

## DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

## STANDARD ENVIRONMENTAL RECORDS

### *Federal NPL site list*

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

### *Federal Delisted NPL site list*

Delisted NPL ---------- National Priority List Deletions

### *Federal CERCLIS list*

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

### *Federal RCRA CORRACTS facilities list*

CORRACTS ---------- Corrective Action Report

### *Federal RCRA non-CORRACTS TSD facilities list*

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

# EXECUTIVE SUMMARY

***Federal RCRA generators list***

RCRA-LQG ..... RCRA - Large Quantity Generators
RCRA-CESQG ..... RCRA - Conditionally Exempt Small Quantity Generator

***Federal institutional controls / engineering controls registries***

LUCIS ..... Land Use Control Information System
US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROL ..... Sites with Institutional Controls

***Federal ERNS list***

ERNS ..... Emergency Response Notification System

***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF ..... Solid Waste Information System

***State and tribal leaking storage tank lists***

INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land

***State and tribal registered storage tank lists***

FEMA UST ..... Underground Storage Tank Listing
AST ..... Aboveground Petroleum Storage Tank Facilities
INDIAN UST ..... Underground Storage Tanks on Indian Land

***State and tribal voluntary cleanup sites***

INDIAN VCP ..... Voluntary Cleanup Priority Listing
VCP ..... Voluntary Cleanup Program Properties

***State and tribal Brownfields sites***

BROWNFIELDS ..... Considered Brownfieds Sites Listing

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Brownfield lists***

US BROWNFIELDS ..... A Listing of Brownfields Sites

***Local Lists of Landfill / Solid Waste Disposal Sites***

WMUDS/SWAT ..... Waste Management Unit Database
SWRCY ..... Recycler Database
HAULERS ..... Registered Waste Tire Haulers Listing
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands
ODI ..... Open Dump Inventory
DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations

***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL ..... Delisted National Clandestine Laboratory Register

| | |
|---|---|
| AOCONCERN | San Gabriel Valley Areas of Concern |
| HIST Cal-Sites | Historical Calsites Database |
| SCH | School Property Evaluation Program |
| CDL | Clandestine Drug Labs |
| Toxic Pits | Toxic Pits Cleanup Act Sites |
| US CDL | National Clandestine Laboratory Register |

***Local Land Records***

| | |
|---|---|
| LIENS | Environmental Liens Listing |
| LIENS 2 | CERCLA Lien Information |
| DEED | Deed Restriction Listing |

***Records of Emergency Release Reports***

| | |
|---|---|
| HMIRS | Hazardous Materials Information Reporting System |
| CHMIRS | California Hazardous Material Incident Report System |
| LDS | Land Disposal Sites Listing |
| MCS | Military Cleanup Sites Listing |
| SPILLS 90 | SPILLS 90 data from FirstSearch |

***Other Ascertainable Records***

| | |
|---|---|
| RCRA NonGen / NLR | RCRA - Non Generators / No Longer Regulated |
| FUDS | Formerly Used Defense Sites |
| SCRD DRYCLEANERS | State Coalition for Remediation of Drycleaners Listing |
| US FIN ASSUR | Financial Assurance Information |
| EPA WATCH LIST | EPA WATCH LIST |
| 2020 COR ACTION | 2020 Corrective Action Program List |
| TSCA | Toxic Substances Control Act |
| TRIS | Toxic Chemical Release Inventory System |
| SSTS | Section 7 Tracking Systems |
| ROD | Records Of Decision |
| RMP | Risk Management Plans |
| RAATS | RCRA Administrative Action Tracking System |
| PRP | Potentially Responsible Parties |
| PADS | PCB Activity Database System |
| ICIS | Integrated Compliance Information System |
| FTTS | FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) |
| MLTS | Material Licensing Tracking System |
| COAL ASH DOE | Steam-Electric Plant Operation Data |
| COAL ASH EPA | Coal Combustion Residues Surface Impoundments List |
| PCB TRANSFORMER | PCB Transformer Registration Database |
| RADINFO | Radiation Information Database |
| HIST FTTS | FIFRA/TSCA Tracking System Administrative Case Listing |
| DOT OPS | Incident and Accident Data |
| CONSENT | Superfund (CERCLA) Consent Decrees |
| INDIAN RESERV | Indian Reservations |
| FUSRAP | Formerly Utilized Sites Remedial Action Program |
| UMTRA | Uranium Mill Tailings Sites |
| LEAD SMELTERS | Lead Smelter Sites |
| US AIRS | Aerometric Information Retrieval System Facility Subsystem |
| US MINES | Mines Master Index File |
| CA BOND EXP. PLAN | Bond Expenditure Plan |

| | |
|---|---|
| Cortese | "Cortese" Hazardous Waste & Substances Sites List |
| CUPA Listings | CUPA Resources List |
| ENF | Enforcement Action Listing |
| Financial Assurance | Financial Assurance Information Listing |
| LOS ANGELES CO. HMS | HMS: Street Number List |
| HWP | EnviroStor Permitted Facilities Listing |
| HWT | Registered Hazardous Waste Transporter Database |
| MINES | Mines Site Location Listing |
| MWMP | Medical Waste Management Program Listing |
| NPDES | NPDES Permits Listing |
| PEST LIC | Pesticide Regulation Licenses Listing |
| PROC | Certified Processors Database |
| Notify 65 | Proposition 65 Records |
| LA Co. Site Mitigation | Site Mitigation List |
| UIC | UIC Listing |
| WASTEWATER PITS | Oil Wastewater Pits Listing |
| WDS | Waste Discharge System |
| WIP | Well Investigation Program Case List |
| FUELS PROGRAM | EPA Fuels Program Registered Listing |

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

| | |
|---|---|
| EDR MGP | EDR Proprietary Manufactured Gas Plants |

**EDR RECOVERED GOVERNMENT ARCHIVES**

***Exclusive Recovered Govt. Archives***

| | |
|---|---|
| RGA LF | Recovered Government Archive Solid Waste Facilities List |
| RGA LUST | Recovered Government Archive Leaking Underground Storage Tank |

**SURROUNDING SITES: SEARCH RESULTS**

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

**STANDARD ENVIRONMENTAL RECORDS**

***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 01/11/2016 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| AUTO BODY SHOP | 1505-1555 SOUTH PACI | E 1/4 - 1/2 (0.482 mi.) | E25 | 51 |

***Federal RCRA generators list***

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 06/09/2015 has revealed that there are 3 RCRA-SQG sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***CHARLIES MOBIL*** | ***1637 S GAFFEY ST*** | ***E 1/8 - 1/4 (0.243 mi.)*** | ***B9*** | ***16*** |
| ***CHARLIES AUTO CTR*** | ***1637 S GAFFEY*** | ***E 1/8 - 1/4 (0.243 mi.)*** | ***B10*** | ***19*** |
| ***LA SEWER OFFICE BUIL*** | ***1406 GAFFEY ST*** | ***ENE 1/8 - 1/4 (0.248 mi.)*** | ***17*** | ***31*** |

***State- and tribal - equivalent NPL***

RESPONSE: Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

A review of the RESPONSE list, as provided by EDR, and dated 02/01/2016 has revealed that there are 2 RESPONSE sites within approximately 1 mile of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***RICHARDS CLEANERS***<br>Status: Active<br>Facility Id: 60000408 | ***538 WEST 5TH STREET*** | ***NE 1/2 - 1 (0.727 mi.)*** | ***31*** | ***65*** |
| ***FORT MACARTHUR LOWER***<br>Status: Inactive - Action Required<br>Facility Id: 80001050 | ***2901 ARTHUR MACARTHU*** | ***SE 1/2 - 1 (0.919 mi.)*** | ***38*** | ***100*** |

***State- and tribal - equivalent CERCLIS***

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 02/01/2016 has revealed that there are 12 ENVIROSTOR sites within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| PACIFIC VIEW INVESTM<br>Facility Id: 19670002<br>Status: Refer: 1248 Local Agency | 1415-1460 W. 25TH ST | SW 1/2 - 1 (0.715 mi.) | 30 | 64 |
| LA DIST. ENGINEER OF<br>Facility Id: 80001023<br>Status: Inactive - Needs Evaluation | | SW 1/2 - 1 (0.803 mi.) | 32 | 77 |
| ***LUCKY CLEANERS***<br>Facility Id: 19590005<br>Status: Certified O&M - Land Use Restrictions Only | ***1609 W 25TH STREET*** | ***WSW 1/2 - 1 (0.828 mi.)*** | ***33*** | ***78*** |
| WHITE POINT NIKE SIT<br>Facility Id: 80000731<br>Status: Inactive - Needs Evaluation | | SW 1/2 - 1 (0.861 mi.) | 34 | 86 |
| ***SOUTH REGION HIGH SC***<br>Facility Id: 60000787<br>Status: Certified O&M - Land Use Restrictions Only | ***3200 SOUTH ALMA STRE*** | ***S 1/2 - 1 (0.898 mi.)*** | ***36*** | ***88*** |
| LA DIST OFF&STRG YD-<br>Facility Id: 80000288<br>Status: Inactive - Needs Evaluation | | WSW 1/2 - 1 (0.914 mi.) | 37 | 99 |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| PACIFIC STATES OIL C<br>Facility Id: 80001125<br>Status: Inactive - Needs Evaluation | | ENE 1/4 - 1/2 (0.320 mi.) | 18 | 33 |
| ***CABRILLO ELEMENTARY***<br>Facility Id: 19750091<br>Status: Inactive - Needs Evaluation | ***732 SOUTH CABRILLO*** | ***NNE 1/4 - 1/2 (0.397 mi.)*** | ***21*** | ***38*** |
| AUTO BODY SHOP<br>Facility Id: 19750081<br>Status: Inactive - Needs Evaluation | 1505-1555 SOUTH PACI | E 1/4 - 1/2 (0.482 mi.) | E24 | 50 |
| ***RICHARDS CLEANERS***<br>Facility Id: 60000408<br>Status: Active | ***538 WEST 5TH STREET*** | ***NE 1/2 - 1 (0.727 mi.)*** | ***31*** | ***65*** |
| OCEAN PARK CLEANERS | 114 N. GAFFEY STREET | NNE 1/2 - 1 (0.867 mi.) | 35 | 87 |

Facility Id: 19720032
Status: Refer: 1248 Local Agency

| | | | | |
|---|---|---|---|---|
| ***FORT MACARTHUR LOWER*** | ***2901 ARTHUR MACARTHU*** | ***SE 1/2 - 1 (0.919 mi.)*** | ***38*** | ***100*** |
| Facility Id: 80001050<br>Status: Inactive - Action Required | | | | |

***State and tribal leaking storage tank lists***

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 12/14/2015 has revealed that there are 11 LUST sites within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| GAFFEY AND FIFTEENTH<br>Status: Completed - Case Closed<br>Facility Id: 907310470<br>Status: Leak being confirmed<br>Global Id: T0603787910<br>Global ID: T0603787910 | 1500-1510 GAFFEY ST | E 1/8 - 1/4 (0.247 mi.) | 12 | 21 |
| ***MOBIL #11-MTD***<br>Status: Completed - Case Closed<br>Facility Id: 907310170<br>Status: Case Closed<br>Global Id: T0603701623<br>Global ID: T0603701623 | ***1637 GAFFEY*** | ***E 1/8 - 1/4 (0.248 mi.)*** | ***B13*** | ***24*** |
| THRIFTY #184<br>Status: Completed - Case Closed<br>Facility Id: 907310398<br>Status: Pollution Characterization<br>Global Id: T0603701645<br>Global ID: T0603701645 | 1706 GAFFEY ST S | ESE 1/8 - 1/4 (0.248 mi.) | B15 | 26 |
| GSV - SAN PEDRO BUSI<br>Facility Id: 907310425<br>Status: Leak being confirmed<br>Global ID: T0603799316 | 2100 GAFFEY ST | SE 1/4 - 1/2 (0.355 mi.) | C19 | 34 |
| ***BRAY TERMINAL***<br>Status: Completed - Case Closed<br>Facility Id: 907310389<br>Status: Case Closed<br>Global Id: T0603701644<br>Global ID: T0603701644 | ***2115 GAFFEY*** | ***SE 1/4 - 1/2 (0.362 mi.)*** | ***C20*** | ***35*** |
| MOBIL SERVICE STATIO<br>Status: Open - Site Assessment<br>Global Id: T10000006302 | 1001 GAFFEY ST S | NE 1/4 - 1/2 (0.402 mi.) | 22 | 40 |
| ***SAN PEDRO CAR WASH***<br>Status: Open - Remediation | ***735 S GAFFEY ST*** | ***NE 1/4 - 1/2 (0.476 mi.)*** | ***D23*** | ***42*** |

Facility Id: 907310461
Status: Pollution Characterization
Global Id: T0603759003
Global ID: T0603759003

PCBNA BRANCH OFFICE — 740 GAFFEY ST — NE 1/4 - 1/2 (0.484 mi.) — D26 — 52
Status: Completed - Case Closed
Facility Id: 907310416
Status: Preliminary site assessment underway
Global Id: T0603799301
Global ID: T0603799301

SHELL SERVICE STATIO — 1631 PACIFIC AVE. — E 1/4 - 1/2 (0.498 mi.) — F27 — 57
Facility Id: 907310370A
Status: Pollution Characterization
Global ID: T0603711450

***SHELL*** — ***1631 PACIFIC*** — ***E 1/4 - 1/2 (0.498 mi.)*** — ***F28*** — ***58***
Status: Completed - Case Closed
Global Id: T0603711450

***SHELL SERVICE STATIO*** — ***1631 W PACIFIC*** — ***E 1/4 - 1/2 (0.498 mi.)*** — ***F29*** — ***61***
Status: Completed - Case Closed
Facility Id: 907310370
Status: Case Closed
Global Id: T0603701643
Global ID: T0603701643

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 12/14/2015 has revealed that there is 1 SLIC site within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***BRAY TERMINAL*** | ***2115 GAFFEY*** | ***SE 1/4 - 1/2 (0.362 mi.)*** | ***C20*** | ***35*** |
| Facility Status: No further action required | | | | |

***State and tribal registered storage tank lists***

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, and dated 12/14/2015 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| MOBIL SS# 11-MTD | 1637 S GAFFEY ST | E 1/8 - 1/4 (0.243 mi.) | B6 | 14 |
| Facility Id: 24990 | | | | |

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Lists of Registered Storage Tanks***

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 2 SWEEPS UST sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***FRANK'S AUTO SERVICE***<br>Comp Number: 5074 | ***1103 S MEYLER ST*** | ***NNE 1/8 - 1/4 (0.175 mi.)*** | ***5*** | ***13*** |
| ***MOBIL SERVICE STATIO***<br>Status: A<br>Tank Status: A<br>Comp Number: 2134 | ***1637 S GAFFEY ST*** | ***E 1/8 - 1/4 (0.243 mi.)*** | ***B7*** | ***14*** |

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 HIST UST sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| CHAN KEE CHAE<br>Facility Id: 00000039989 | 1637 S GAFFEY | E 1/8 - 1/4 (0.243 mi.) | B8 | 15 |
| THRIFTY OIL STN 184<br>Facility Id: 00000005519 | 1706 GAFFEY | ESE 1/8 - 1/4 (0.248 mi.) | B16 | 30 |

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 2 CA FID UST sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***FRANK'S AUTO SERVICE***<br>Facility Id: 19011999<br>Status: I | ***1103 S MEYLER ST*** | ***NNE 1/8 - 1/4 (0.175 mi.)*** | ***5*** | ***13*** |
| ***MOBIL SERVICE STATIO***<br>Facility Id: 19000950<br>Status: A | ***1637 S GAFFEY ST*** | ***E 1/8 - 1/4 (0.243 mi.)*** | ***B7*** | ***14*** |

***Other Ascertainable Records***

DOD: Consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| FORT MACARTHUR | | S 1/2 - 1 (0.501 mi.) | 0 | 12 |

DRYCLEANERS: A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, and dated 02/08/2016 has revealed that there is 1 DRYCLEANERS site within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***SAN-PEDRO CLEANER, S***<br>EPA Id: CAD050800622 | ***1603 S GAFFEY ST*** | ***E 1/8 - 1/4 (0.244 mi.)*** | ***B11*** | ***20*** |

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 4 HIST CORTESE sites within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***MOBIL #11-MTD***<br>Reg Id: 907310170<br>Reg Id: 369 | ***1637 GAFFEY*** | ***E 1/8 - 1/4 (0.248 mi.)*** | ***B13*** | ***24*** |
| THRIFTY #184<br>Reg Id: 907310398 | 1706 GAFFEY | ESE 1/8 - 1/4 (0.248 mi.) | B14 | 26 |
| ***BRAY TERMINAL***<br>Reg Id: 907310389 | ***2115 GAFFEY*** | ***SE 1/4 - 1/2 (0.362 mi.)*** | ***C20*** | ***35*** |
| ***SHELL*** | ***1631 PACIFIC*** | ***E 1/4 - 1/2 (0.498 mi.)*** | ***F28*** | ***58*** |

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

# EXECUTIVE SUMMARY

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there is 1 EDR Hist Auto site within approximately 0.125 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| Not reported | 921 W 17TH ST | SE 0 - 1/8 (0.009 mi.) | 3 | 12 |

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there is 1 EDR Hist Cleaner site within approximately 0.125 miles of the target property.

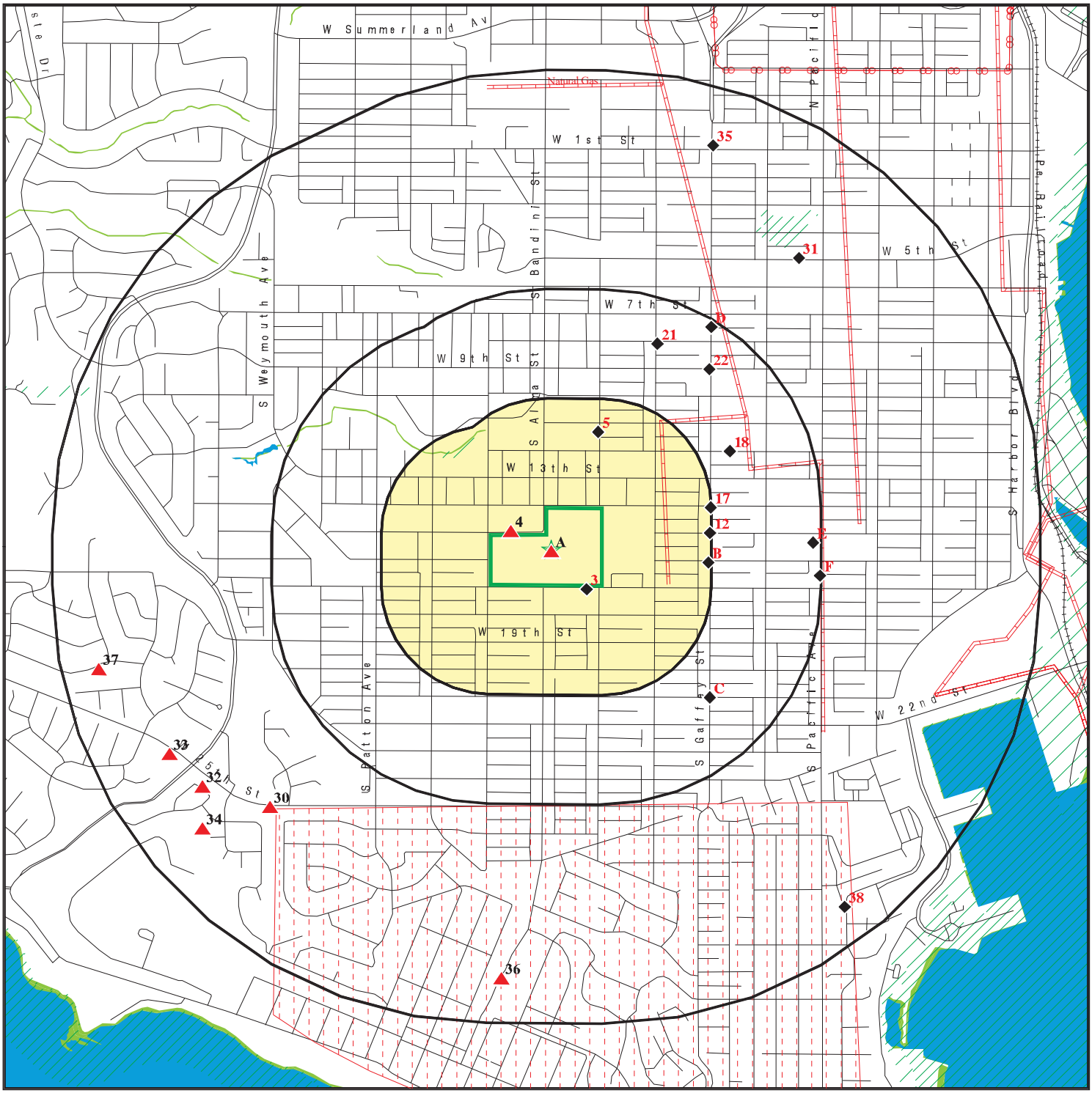
| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| Not reported | 1056 W 15TH ST | WNW 0 - 1/8 (0.009 mi.) | 4 | 13 |

# EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 4 records.

| Site Name | Database(s) |
|---|---|
| SAN PEDRO AREA ALLEY PROJ | NPDES |
| LOS ANGELES HARBOR BERTH 115 | SEMS-ARCHIVE, ENVIROSTOR |
| 15TH STREET ELEMENTARY SCHOOL ADDI | ENVIROSTOR, SCH |
| H-10 WATER TAXI COMPANY | ENVIROSTOR |

# OVERVIEW MAP - 4583327.2S




0 1/4 1/2 1 Miles

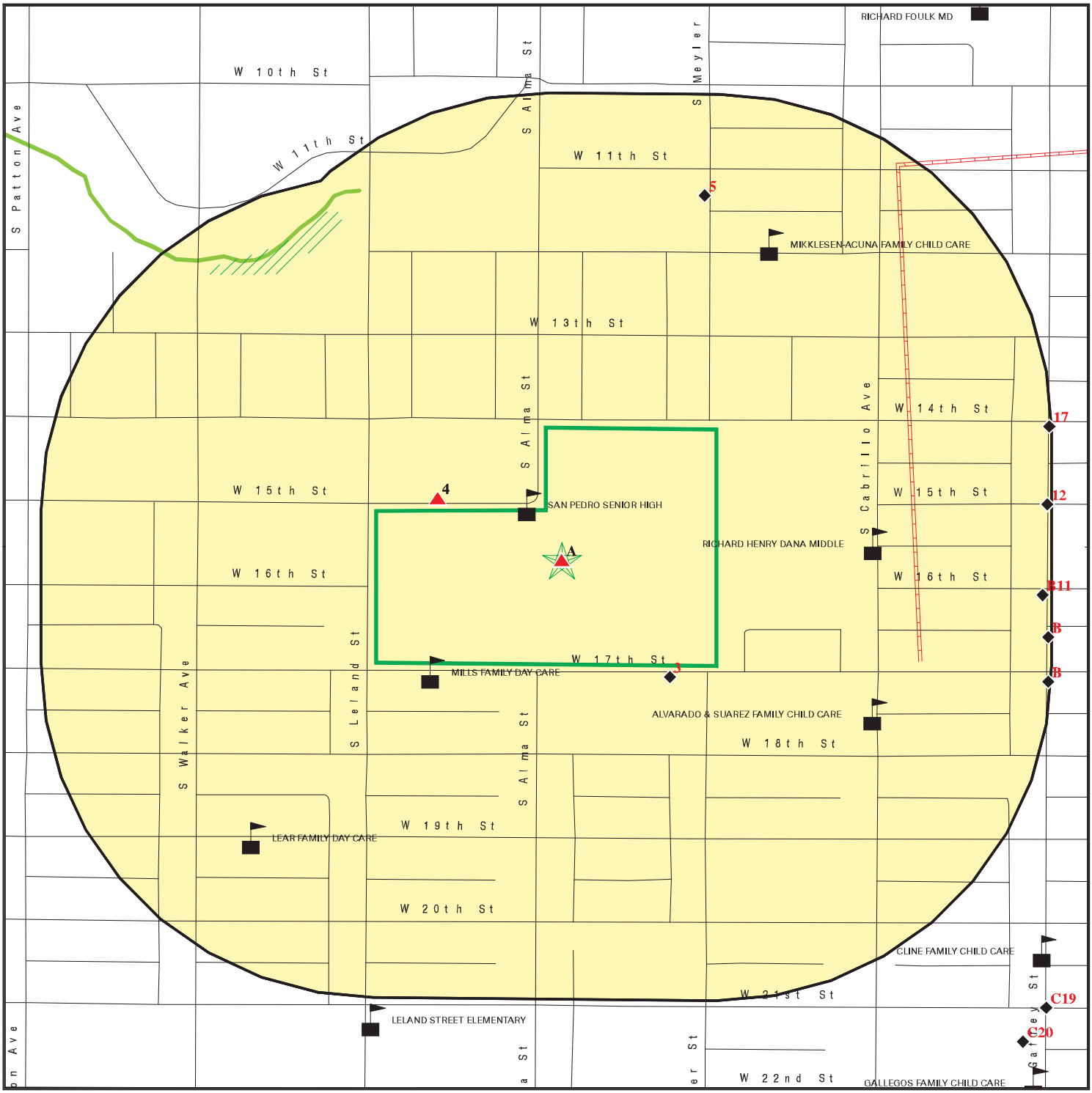
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

| | |
|---|---|
| SITE NAME: San Pedro High School<br>ADDRESS: 1001 W 15th Street<br>San Pedro CA 90731<br>LAT/LONG: 33.73002 / 118.298674 | CLIENT: Clark Seif Clark, Inc.<br>CONTACT: Natalia Guerra<br>INQUIRY #: 4583327.2s<br>DATE: April 05, 2016 3:36 pm |

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# DETAIL MAP - 4583327.2S




- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

| | |
|---|---|
| SITE NAME: San Pedro High School | CLIENT: Clark Seif Clark, Inc. |
| ADDRESS: 1001 W 15th Street<br>San Pedro CA 90731 | CONTACT: Natalia Guerra |
| LAT/LONG: 33.73002 / 118.298674 | INQUIRY #: 4583327.2s<br>DATE: April 05, 2016 3:37 pm |

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# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| **STANDARD ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Federal NPL site list*** | | | | | | | | |
| NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| Proposed NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| NPL LIENS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ***Federal Delisted NPL site list*** | | | | | | | | |
| Delisted NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal CERCLIS list*** | | | | | | | | |
| FEDERAL FACILITY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SEMS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal CERCLIS NFRAP site list*** | | | | | | | | |
| SEMS-ARCHIVE | 0.500 | | 0 | 0 | 1 | NR | NR | 1 |
| ***Federal RCRA CORRACTS facilities list*** | | | | | | | | |
| CORRACTS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal RCRA non-CORRACTS TSD facilities list*** | | | | | | | | |
| RCRA-TSDF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal RCRA generators list*** | | | | | | | | |
| RCRA-LQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| RCRA-SQG | 0.250 | 1 | 0 | 3 | NR | NR | NR | 4 |
| RCRA-CESQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ***Federal institutional controls / engineering controls registries*** | | | | | | | | |
| LUCIS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US ENG CONTROLS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US INST CONTROL | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal ERNS list*** | | | | | | | | |
| ERNS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ***State- and tribal - equivalent NPL*** | | | | | | | | |
| RESPONSE | 1.000 | | 0 | 0 | 0 | 2 | NR | 2 |
| ***State- and tribal - equivalent CERCLIS*** | | | | | | | | |
| ENVIROSTOR | 1.000 | | 0 | 0 | 3 | 9 | NR | 12 |
| ***State and tribal landfill and/or solid waste disposal site lists*** | | | | | | | | |
| SWF/LF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***State and tribal leaking storage tank lists*** | | | | | | | | |
| LUST | 0.500 | | 0 | 3 | 8 | NR | NR | 11 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| INDIAN LUST | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SLIC | 0.500 | | 0 | 0 | 1 | NR | NR | 1 |
| ***State and tribal registered storage tank lists*** | | | | | | | | |
| FEMA UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| UST | 0.250 | | 0 | 1 | NR | NR | NR | 1 |
| AST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| INDIAN UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ***State and tribal voluntary cleanup sites*** | | | | | | | | |
| INDIAN VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***State and tribal Brownfields sites*** | | | | | | | | |
| BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| **ADDITIONAL ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Local Brownfield lists*** | | | | | | | | |
| US BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Landfill / Solid Waste Disposal Sites*** | | | | | | | | |
| WMUDS/SWAT | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SWRCY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| HAULERS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| INDIAN ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| DEBRIS REGION 9 | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Hazardous waste / Contaminated Sites*** | | | | | | | | |
| US HIST CDL | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| AOCONCERN | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| HIST Cal-Sites | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| SCH | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| CDL | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| Toxic Pits | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| US CDL | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ***Local Lists of Registered Storage Tanks*** | | | | | | | | |
| SWEEPS UST | 0.250 | | 0 | 2 | NR | NR | NR | 2 |
| HIST UST | 0.250 | | 0 | 2 | NR | NR | NR | 2 |
| CA FID UST | 0.250 | | 0 | 2 | NR | NR | NR | 2 |
| ***Local Land Records*** | | | | | | | | |
| LIENS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| LIENS 2 | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| DEED | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Records of Emergency Release Reports*** | | | | | | | | |
| HMIRS | 0.001 | | 0 | NR | NR | NR | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| CHMIRS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| LDS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| MCS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| SPILLS 90 | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ***Other Ascertainable Records*** | | | | | | | | |
| RCRA NonGen / NLR | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| FUDS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| DOD | 1.000 | | 0 | 0 | 0 | 1 | NR | 1 |
| SCRD DRYCLEANERS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US FIN ASSUR | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| EPA WATCH LIST | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| 2020 COR ACTION | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| TSCA | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| TRIS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| SSTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ROD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| RMP | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| RAATS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PRP | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PADS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ICIS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| FTTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| MLTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| COAL ASH DOE | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| COAL ASH EPA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| PCB TRANSFORMER | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| RADINFO | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HIST FTTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| DOT OPS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| CONSENT | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| INDIAN RESERV | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| FUSRAP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| UMTRA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| LEAD SMELTERS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| US AIRS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| US MINES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| FINDS | 0.001 | 1 | 0 | NR | NR | NR | NR | 1 |
| CA BOND EXP. PLAN | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| Cortese | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| CUPA Listings | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| DRYCLEANERS | 0.250 | | 0 | 1 | NR | NR | NR | 1 |
| EMI | 0.001 | 1 | 0 | NR | NR | NR | NR | 1 |
| ENF | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| Financial Assurance | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HAZNET | 0.001 | 1 | 0 | NR | NR | NR | NR | 1 |
| HIST CORTESE | 0.500 | | 0 | 2 | 2 | NR | NR | 4 |
| LOS ANGELES CO. HMS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HWP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| HWT | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| MINES | 0.001 | | 0 | NR | NR | NR | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| MWMP | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| NPDES | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PEST LIC | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PROC | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| Notify 65 | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| LA Co. Site Mitigation | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| UIC | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| WASTEWATER PITS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| WDS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| WIP | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| FUELS PROGRAM | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ECHO | 0.001 | 1 | 0 | NR | NR | NR | NR | 1 |
| **EDR HIGH RISK HISTORICAL RECORDS** | | | | | | | | |
| ***EDR Exclusive Records*** | | | | | | | | |
| EDR MGP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| EDR Hist Auto | 0.125 | | 1 | NR | NR | NR | NR | 1 |
| EDR Hist Cleaner | 0.125 | | 1 | NR | NR | NR | NR | 1 |
| **EDR RECOVERED GOVERNMENT ARCHIVES** | | | | | | | | |
| ***Exclusive Recovered Govt. Archives*** | | | | | | | | |
| RGA LF | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| RGA LUST | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| - Totals -- | | 5 | 2 | 16 | 15 | 12 | 0 | 50 |

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

**A1**
**Target Property**
**LAUSD-SAN PEDRO HIGH SCHOOL**
**1001 W 15TH ST**
**SAN PEDRO, CA 90731**

**RCRA-SQG**
**FINDS**
**EMI**
**ECHO**

**1000102139**
**CAD982022642**

**Site 1 of 2 in cluster A**

**Actual:**
**180 ft.**

RCRA-SQG:

| | |
|---|---|
| Date form received by agency: | 01/25/2002 |
| Facility name: | LAUSD-SAN PEDRO HIGH SCHOOL |
| Facility address: | 1001 W 15TH ST<br>SAN PEDRO, CA 90731 |
| EPA ID: | CAD982022642 |
| Mailing address: | 1449 S SAN PEDRO ST<br>LOS ANGELES, CA 90015 |
| Contact: | SOE AUNG |
| Contact address: | Not reported<br>Not reported |
| Contact country: | US |
| Contact telephone: | (213) 743-5086 |
| Telephone ext.: | 538 |
| Contact email: | Not reported |
| EPA Region: | 09 |
| Land type: | Facility is not located on Indian land. Additional information is not known. |
| Classification: | Small Small Quantity Generator |
| Description: | Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time |

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | LOS ANGELES UNIFIED SCHOOL DISTRICT |
| Owner/operator address: | NOT REQUIRED<br>NOT REQUIRED, ME 99999 |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | (415) 555-1212 |
| Legal status: | Municipal |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

| | |
|---|---|
| Owner/operator name: | NOT REQUIRED |
| Owner/operator address: | NOT REQUIRED<br>NOT REQUIRED, ME 99999 |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | (415) 555-1212 |
| Legal status: | Municipal |
| Owner/Operator Type: | Operator |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

Handler Activities Summary:

| | |
|---|---|
| U.S. importer of hazardous waste: | No |
| Mixed waste (haz. and radioactive): | No |
| Recycler of hazardous waste: | No |
| Transporter of hazardous waste: | No |
| Treater, storer or disposer of HW: | No |
| Underground injection activity: | No |

**LAUSD-SAN PEDRO HIGH SCHOOL (Continued)** **1000102139**

On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/25/2002
Site name: LAUSD-SAN PEDRO HIGH SCHOOL
Classification: Large Quantity Generator

Date form received by agency: 08/07/1987
Site name: LOS ANGELES USD SAN PEDRO HIGH SCHOOL
Classification: Small Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 09/19/2005
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/19/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 09/19/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: Local

FINDS:

Registry ID: 110002779244

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

**LAUSD-SAN PEDRO HIGH SCHOOL (Continued)** **1000102139**

corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER

EMI:

| | |
|---|---|
| Year: | 1990 |
| County Code: | 19 |
| Air Basin: | SC |
| Facility ID: | 4395 |
| Air District Name: | SC |
| SIC Code: | 8211 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers & Smllr Tons/Yr: | 0 |

ECHO:

| | |
|---|---|
| Envid: | 1000102139 |
| Registry ID: | 110002779244 |
| DFR URL: | http://echo.epa.gov/detailed_facility_report?fid=110002779244 |

---

**A2** **LAUSD/ SAN PEDRO HS** **HAZNET** **S113012614**
**Target** **1001 W 15TH ST** **N/A**
**Property** **SAN PEDRO, CA 90731**

**Site 2 of 2 in cluster A**

**Actual:**
**180 ft.**

HAZNET:

| | |
|---|---|
| envid: | S113012614 |
| Year: | 2014 |
| GEPAID: | CAD982022642 |
| Contact: | PAT SCHAENEN |
| Telephone: | 2132413921 |
| Mailing Name: | Not reported |
| Mailing Address: | 374 S BEAUDRY AVE FL 28 |
| Mailing City,St,Zip: | LOS ANGELES, CA 900170000 |
| Gen County: | Los Angeles |
| TSD EPA ID: | CAD009007626 |
| TSD County: | Los Angeles |
| Waste Category: | Asbestos containing waste |
| Disposal Method: | Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Tons: | 32 |
| Cat Decode: | Asbestos containing waste |
| Method Decode: | Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Facility County: | Los Angeles |

| | |
|---|---|
| envid: | S113012614 |
| Year: | 2012 |

**LAUSD/ SAN PEDRO HS (Continued)** **S113012614**

| | |
|---|---|
| GEPAID: | CAD982022642 |
| Contact: | SOE AUNG |
| Telephone: | 2137455939 |
| Mailing Name: | Not reported |
| Mailing Address: | 333 S BEAUNDRY AVE 28TH FLR |
| Mailing City,St,Zip: | LOS ANGELES, CA 900170000 |
| Gen County: | Los Angeles |
| TSD EPA ID: | CAD028409019 |
| TSD County: | Los Angeles |
| Waste Category: | Not reported |
| Disposal Method: | Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.0225 |
| Cat Decode: | Not reported |
| Method Decode: | Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Facility County: | Los Angeles |

| | |
|---|---|
| envid: | S113012614 |
| Year: | 2012 |
| GEPAID: | CAD982022642 |
| Contact: | SOE AUNG |
| Telephone: | 2137455939 |
| Mailing Name: | Not reported |
| Mailing Address: | 333 S BEAUNDRY AVE 28TH FLR |
| Mailing City,St,Zip: | LOS ANGELES, CA 900170000 |
| Gen County: | Los Angeles |
| TSD EPA ID: | IND000351387 |
| TSD County: | Not reported |
| Waste Category: | Not reported |
| Disposal Method: | Metals Recovery Including Retoring,Smelting,Chemicals,Ect |
| Tons: | 0.0025 |
| Cat Decode: | Not reported |
| Method Decode: | Metals Recovery Including Retoring,Smelting,Chemicals,Ect |
| Facility County: | Los Angeles |

| | |
|---|---|
| envid: | S113012614 |
| Year: | 2010 |
| GEPAID: | CAD982022642 |
| Contact: | SOE AUNG |
| Telephone: | 2137455939 |
| Mailing Name: | Not reported |
| Mailing Address: | 333 S BEAUNDRY AVE 28TH FLR |
| Mailing City,St,Zip: | LOS ANGELES, CA 900170000 |
| Gen County: | Not reported |
| TSD EPA ID: | AZR000501510 |
| TSD County: | Not reported |
| Waste Category: | Latex waste |
| Disposal Method: | Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 1.35 |
| Cat Decode: | Latex waste |
| Method Decode: | Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Facility County: | Los Angeles |

| | |
|---|---|
| envid: | S113012614 |

**LAUSD/ SAN PEDRO HS (Continued)** **S113012614**

| | |
|---|---|
| Year: | 2010 |
| GEPAID: | CAD982022642 |
| Contact: | SOE AUNG |
| Telephone: | 2137455939 |
| Mailing Name: | Not reported |
| Mailing Address: | 333 S BEAUNDRY AVE 28TH FLR |
| Mailing City,St,Zip: | LOS ANGELES, CA 900170000 |
| Gen County: | Not reported |
| TSD EPA ID: | CAD028409019 |
| TSD County: | Not reported |
| Waste Category: | Laboratory waste chemicals |
| Disposal Method: | Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.06 |
| Cat Decode: | Laboratory waste chemicals |
| Method Decode: | Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Facility County: | Los Angeles |

Click this hyperlink while viewing on your computer to access
49 additional CA_HAZNET: record(s) in the EDR Site Report.

---

**DOD** **FORT MACARTHUR** **DOD** **CUSA143891**
**Region** **N/A**
**South**
**1/2-1** **FORT MACARTHUR (County), CA**
**2644 ft.**

DOD:

| | |
|---|---|
| Feature 1: | Army DOD |
| Feature 2: | Not reported |
| Feature 3: | Not reported |
| URL: | Not reported |
| Name 1: | Fort MacArthur |
| Name 2: | Not reported |
| Name 3: | Not reported |
| State: | CA |
| DOD Site: | Yes |
| Tile name: | CALOS_ANGELES |

---

**3** **EDR Hist Auto** **1015675780**
**SE** **921 W 17TH ST** **N/A**
**< 1/8** **SAN PEDRO, CA 90731**
**0.009 mi.**
**46 ft.**

**Relative:**
**Lower**

**Actual:**
**140 ft.**

EDR Historical Auto Stations:

| | |
|---|---|
| Name: | ANGEL AUTO SERVICE |
| Year: | 2008 |
| Address: | 921 W 17TH ST |

**4**
**WNW**
**< 1/8**
**0.009 mi.**
**49 ft.**

**1056 W 15TH ST**
**SAN PEDRO, CA 90731**

**EDR Hist Cleaner** **1014971520**
**N/A**

**Relative:**
**Higher**

**Actual:**
**180 ft.**

EDR Historical Cleaners:

| | |
|---|---|
| Name: | SUNSHINE CARPET CLEANING SERVICES |
| Year: | 1999 |
| Address: | 1056 W 15TH ST |

---

**5**
**NNE**
**1/8-1/4**
**0.175 mi.**
**922 ft.**

**FRANK'S AUTO SERVICE**
**1103 S MEYLER ST**
**SAN PEDRO, CA 90731**

**SWEEPS UST** **S101584491**
**CA FID UST** **N/A**

**Relative:**
**Lower**

**Actual:**
**145 ft.**

SWEEPS UST:

| | |
|---|---|
| Status: | Not reported |
| Comp Number: | 5074 |
| Number: | Not reported |
| Board Of Equalization: | Not reported |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | Not reported |
| Tank Status: | Not reported |
| Capacity: | Not reported |
| Active Date: | Not reported |
| Tank Use: | Not reported |
| STG: | Not reported |
| Content: | Not reported |
| Number Of Tanks: | 0 |

CA FID UST:

| | |
|---|---|
| Facility ID: | 19011999 |
| Regulated By: | UTNKI |
| Regulated ID: | Not reported |
| Cortese Code: | Not reported |
| SIC Code: | Not reported |
| Facility Phone: | 2130000000 |
| Mail To: | Not reported |
| Mailing Address: | 1103 S MEYLER ST |
| Mailing Address 2: | Not reported |
| Mailing City,St,Zip: | SAN PEDRO 907310000 |
| Contact: | Not reported |
| Contact Phone: | Not reported |
| DUNs Number: | Not reported |
| NPDES Number: | Not reported |
| EPA ID: | Not reported |
| Comments: | Not reported |
| Status: | Inactive |

**B6** **MOBIL SS# 11-MTD** **UST** **U003982225**
**East** **1637 S GAFFEY ST** **N/A**
**1/8-1/4** **SAN PEDRO, CA 90731**
**0.243 mi.**
**1284 ft.** **Site 1 of 10 in cluster B**

**Relative:**
**Lower**

**Actual:**
**92 ft.**

UST:
Facility ID: 24990
Permitting Agency: LOS ANGELES, CITY OF
Latitude: 33.7303889
Longitude: -118.2914154

---

**B7** **MOBIL SERVICE STATION 11 MTD** **SWEEPS UST** **S101582653**
**East** **1637 S GAFFEY ST** **CA FID UST** **N/A**
**1/8-1/4** **SAN PEDRO, CA 90731**
**0.243 mi.**
**1284 ft.** **Site 2 of 10 in cluster B**

**Relative:**
**Lower**

**Actual:**
**92 ft.**

SWEEPS UST:
Status: Active
Comp Number: 2134
Number: 1
Board Of Equalization: 44-012143
Referral Date: 04-09-93
Action Date: 04-11-94
Created Date: 02-29-88
Owner Tank Id: 11-MTD-1
SWRCB Tank Id: 19-050-002134-000001
Tank Status: A
Capacity: 8000
Active Date: 03-03-93
Tank Use: M. V. FUEL
STG: P
Content: LEADED
Number Of Tanks: 4

Status: Active
Comp Number: 2134
Number: 1
Board Of Equalization: 44-012143
Referral Date: 04-09-93
Action Date: 04-11-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-002134-000002
Tank Status: A
Capacity: 8000
Active Date: 04-20-88
Tank Use: M. V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 2134
Number: 1
Board Of Equalization: 44-012143
Referral Date: 04-09-93
Action Date: 04-11-94
Created Date: 02-29-88

**MOBIL SERVICE STATION 11 MTD (Continued)** **S101582653**

| | |
|---|---|
| Owner Tank Id: | 11-MTD-3 |
| SWRCB Tank Id: | 19-050-002134-000003 |
| Tank Status: | A |
| Capacity: | 12000 |
| Active Date: | 03-03-93 |
| Tank Use: | M. V. FUEL |
| STG: | P |
| Content: | REG UNLEADED |
| Number Of Tanks: | Not reported |
| | |
| Status: | Active |
| Comp Number: | 2134 |
| Number: | 1 |
| Board Of Equalization: | 44-012143 |
| Referral Date: | 04-09-93 |
| Action Date: | 04-11-94 |
| Created Date: | 02-29-88 |
| Owner Tank Id: | 11-MTD-4 |
| SWRCB Tank Id: | 19-050-002134-000004 |
| Tank Status: | A |
| Capacity: | 1000 |
| Active Date: | 03-03-93 |
| Tank Use: | OIL |
| STG: | W |
| Content: | WASTE OIL |
| Number Of Tanks: | Not reported |

CA FID UST:

| | |
|---|---|
| Facility ID: | 19000950 |
| Regulated By: | UTNKA |
| Regulated ID: | 00039989 |
| Cortese Code: | Not reported |
| SIC Code: | Not reported |
| Facility Phone: | 2138313513 |
| Mail To: | Not reported |
| Mailing Address: | 612 S FLOWER ST |
| Mailing Address 2: | Not reported |
| Mailing City,St,Zip: | SAN PEDRO 907310000 |
| Contact: | Not reported |
| Contact Phone: | Not reported |
| DUNs Number: | Not reported |
| NPDES Number: | Not reported |
| EPA ID: | Not reported |
| Comments: | Not reported |
| Status: | Active |

---

**B8** **CHAN KEE CHAE** **HIST UST** **U001565522**
**East** **1637 S GAFFEY** **N/A**
**1/8-1/4** **SAN PEDRO, CA 90731**
**0.243 mi.**
**1284 ft.** **Site 3 of 10 in cluster B**

**Relative:**
**Lower**

**Actual:**
**92 ft.**

HIST UST:

| | |
|---|---|
| File Number: | 00027E87 |
| URL: | http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027E87.pdf |
| Region: | STATE |
| Facility ID: | 00000039989 |

**CHAN KEE CHAE (Continued)** **U001565522**

| | |
|---|---|
| Facility Type: | Gas Station |
| Other Type: | Not reported |
| Contact Name: | SAME |
| Telephone: | 2138313513 |
| Owner Name: | MOBIL OIL CORP. |
| Owner Address: | 612 S. FLOWER ST. |
| Owner City,St,Zip: | LOS ANGELES, CA 90017 |
| Total Tanks: | 0004 |
| | |
| Tank Num: | 001 |
| Container Num: | 1 |
| Year Installed: | Not reported |
| Tank Capacity: | 00000280 |
| Tank Used for: | WASTE |
| Type of Fuel: | WASTE OIL |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor |
| | |
| Tank Num: | 002 |
| Container Num: | 4 |
| Year Installed: | 1982 |
| Tank Capacity: | 00008000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | REGULAR |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor |
| | |
| Tank Num: | 003 |
| Container Num: | 3 |
| Year Installed: | 1982 |
| Tank Capacity: | 00010000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | PREMIUM |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor |
| | |
| Tank Num: | 004 |
| Container Num: | 2 |
| Year Installed: | 1982 |
| Tank Capacity: | 00012000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | UNLEADED |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor |

Click here for Geo Tracker PDF:

---

**B9** **CHARLIES MOBIL** **RCRA-SQG 1000364328**
**East** **1637 S GAFFEY ST** **HAZNET CAD982407231**
**1/8-1/4** **SAN PEDRO, CA 90731**
**0.243 mi.**
**1284 ft.** **Site 4 of 10 in cluster B**

**Relative:**
**Lower**

**Actual:**
**92 ft.**

RCRA-SQG:

| | |
|---|---|
| Date form received by agency: | 03/31/1988 |
| Facility name: | CHARLIES MOBIL |
| Facility address: | 1637 S GAFFEY ST<br>SAN PEDRO, CA 90731 |

**CHARLIES MOBIL (Continued)** **1000364328**

| | |
|---|---|
| EPA ID: | CAD982407231 |
| Mailing address: | S GAFFEY ST<br>SAN PEDRO, CA 90731 |
| Contact: | ENVIRONMENTAL MANAGER |
| Contact address: | 1637 S GAFFEY ST<br>SAN PEDRO, CA 90731 |
| Contact country: | US |
| Contact telephone: | (213) 831-3513 |
| Contact email: | Not reported |
| EPA Region: | 09 |
| Classification: | Small Small Quantity Generator |
| Description: | Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time |

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | CHAN CHAE |
| Owner/operator address: | NOT REQUIRED<br>NOT REQUIRED, ME 99999 |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | (415) 555-1212 |
| Legal status: | Private |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

| | |
|---|---|
| Owner/operator name: | NOT REQUIRED |
| Owner/operator address: | NOT REQUIRED<br>NOT REQUIRED, ME 99999 |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | (415) 555-1212 |
| Legal status: | Private |
| Owner/Operator Type: | Operator |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

Handler Activities Summary:

| | |
|---|---|
| U.S. importer of hazardous waste: | No |
| Mixed waste (haz. and radioactive): | No |
| Recycler of hazardous waste: | No |
| Transporter of hazardous waste: | No |
| Treater, storer or disposer of HW: | No |
| Underground injection activity: | No |
| On-site burner exemption: | No |
| Furnace exemption: | No |
| Used oil fuel burner: | No |
| Used oil processor: | No |
| User oil refiner: | No |
| Used oil fuel marketer to burner: | No |
| Used oil Specification marketer: | No |
| Used oil transfer facility: | No |
| Used oil transporter: | No |

Violation Status: No violations found

**CHARLIES MOBIL (Continued)** **1000364328**

HAZNET:

| | |
|---|---|
| envid: | 1000364328 |
| Year: | 2008 |
| GEPAID: | CAD982407231 |
| Contact: | -- |
| Telephone: | -- |
| Mailing Name: | Not reported |
| Mailing Address: | 1637 S GAFFEY ST |
| Mailing City,St,Zip: | SAN PEDRO, CA 907314627 |
| Gen County: | Not reported |
| TSD EPA ID: | CAD981696420 |
| TSD County: | Not reported |
| Waste Category: | Unspecified aqueous solution |
| Disposal Method: | Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.735 |
| Cat Decode: | Unspecified aqueous solution |
| Method Decode: | Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Facility County: | Los Angeles |

| | |
|---|---|
| envid: | 1000364328 |
| Year: | 1998 |
| GEPAID: | CAD982407231 |
| Contact: | Not reported |
| Telephone: | 0000000000 |
| Mailing Name: | Not reported |
| Mailing Address: | 1637 S GAFFEY ST |
| Mailing City,St,Zip: | SAN PEDRO, CA 907314627 |
| Gen County: | Not reported |
| TSD EPA ID: | CAT000613893 |
| TSD County: | Not reported |
| Waste Category: | Aqueous solution with total organic residues less than 10 percent |
| Disposal Method: | Transfer Station |
| Tons: | .0166 |
| Cat Decode: | Aqueous solution with total organic residues less than 10 percent |
| Method Decode: | Transfer Station |
| Facility County: | Los Angeles |

| | |
|---|---|
| envid: | 1000364328 |
| Year: | 1995 |
| GEPAID: | CAD982407231 |
| Contact: | Not reported |
| Telephone: | 0000000000 |
| Mailing Name: | Not reported |
| Mailing Address: | 1637 S GAFFEY ST |
| Mailing City,St,Zip: | SAN PEDRO, CA 907314627 |
| Gen County: | Not reported |
| TSD EPA ID: | CAT080013352 |
| TSD County: | Not reported |
| Waste Category: | Tank bottom waste |
| Disposal Method: | Recycler |
| Tons: | .9382 |
| Cat Decode: | Tank bottom waste |
| Method Decode: | Recycler |
| Facility County: | Los Angeles |

**B10** **CHARLIES AUTO CTR** **RCRA-SQG** **1000364326**
**East** **1637 S GAFFEY** **FINDS** **CAD981439771**
**1/8-1/4** **SAN PEDRO, CA 90731** **ECHO**
**0.243 mi.**
**1284 ft.** **Site 5 of 10 in cluster B**

**Relative:**
**Lower**

**Actual:**
**92 ft.**

RCRA-SQG:

| | |
|---|---|
| Date form received by agency: | 09/03/1986 |
| Facility name: | CHARLIES AUTO CTR |
| Facility address: | 1637 S GAFFEY<br>SAN PEDRO, CA 90731 |
| EPA ID: | CAD981439771 |
| Contact: | ENVIRONMENTAL MANAGER |
| Contact address: | 1637 S GAFFEY<br>SAN PEDRO, CA 90731 |
| Contact country: | US |
| Contact telephone: | (213) 831-3513 |
| Contact email: | Not reported |
| EPA Region: | 09 |
| Classification: | Small Small Quantity Generator |
| Description: | Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time |

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | CHARLIE CHAE |
| Owner/operator address: | NOT REQUIRED<br>NOT REQUIRED, ME 99999 |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | (415) 555-1212 |
| Legal status: | Private |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

| | |
|---|---|
| Owner/operator name: | NOT REQUIRED |
| Owner/operator address: | NOT REQUIRED<br>NOT REQUIRED, ME 99999 |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | (415) 555-1212 |
| Legal status: | Private |
| Owner/Operator Type: | Operator |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

Handler Activities Summary:

| | |
|---|---|
| U.S. importer of hazardous waste: | No |
| Mixed waste (haz. and radioactive): | No |
| Recycler of hazardous waste: | No |
| Transporter of hazardous waste: | No |
| Treater, storer or disposer of HW: | No |
| Underground injection activity: | No |
| On-site burner exemption: | No |
| Furnace exemption: | No |
| Used oil fuel burner: | No |
| Used oil processor: | No |

**CHARLIES AUTO CTR (Continued)** **1000364326**

User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110009544644

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:
Envid: 1000364326
Registry ID: 110009544644
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110009544644

---

**B11** **SAN-PEDRO CLEANER, SUN SAM PAR** **DRYCLEANERS** **1000127503**
**East** **1603 S GAFFEY ST** **EMI** **N/A**
**1/8-1/4** **SAN PEDRO, CA 90731**
**0.244 mi.**
**1286 ft.** **Site 6 of 10 in cluster B**

**Relative:**
**Lower**

**Actual:**
**94 ft.**

DRYCLEANERS:
EPA Id: CAD050800622
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 06/17/1988
Facility Active: Yes
Inactive Date: Not reported
Facility Addr2: Not reported
Owner Name: KIM MUN SICK
Owner Address: 1603 S GAFFEY ST
Owner Address 2: Not reported
Owner Telephone: 3108316353
Contact Name: KIM MUN SICK
Contact Address: 1603 S GAFFEY ST
Contact Address 2: Not reported
Contact Telephone: 3108316353
Mailing Name: Not reported
Mailing Address 1: 1603 S GAFFEY ST
Mailing Address 2: Not reported
Mailing City: SAN PEDRO
Mailing State: CA
Mailing Zip: 907314627
Owner Fax: 3
Region Code: 0000000000

**SAN-PEDRO CLEANER, SUN SAM PAR (Continued)** **1000127503**

EMI:

| | |
|---|---|
| Year: | 1987 |
| County Code: | 19 |
| Air Basin: | SC |
| Facility ID: | 55704 |
| Air District Name: | SC |
| SIC Code: | 7216 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 1 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers & Smllr Tons/Yr: | 0 |

---

**12**
**East**
**1/8-1/4**
**0.247 mi.**
**1303 ft.**

**Relative:**
**Lower**

**Actual:**
**99 ft.**

**GAFFEY AND FIFTEENTH ASSOCIATES** **LUST** **S106517285**
**1500-1510 GAFFEY ST S.** **N/A**
**SAN PEDRO, CA 90731**

LUST:

| | |
|---|---|
| Region: | STATE |
| Global Id: | T0603787910 |
| Latitude: | 33.730239 |
| Longitude: | -118.29238 |
| Case Type: | LUST Cleanup Site |
| Status: | Completed - Case Closed |
| Status Date: | 01/20/2010 |
| Lead Agency: | LOS ANGELES RWQCB (REGION 4) |
| Case Worker: | MB |
| Local Agency: | LOS ANGELES, CITY OF |
| RB Case Number: | 907310470 |
| LOC Case Number: | Not reported |
| File Location: | Regional Board |
| Potential Media Affect: | Aquifer used for drinking water supply |
| Potential Contaminants of Concern: | Gasoline |
| Site History: | Not reported |

Click here to access the California GeoTracker records for this facility:

Contact:

| | |
|---|---|
| Global Id: | T0603787910 |
| Contact Type: | Regional Board Caseworker |
| Contact Name: | MAGDY BAIADY |
| Organization Name: | LOS ANGELES RWQCB (REGION 4) |
| Address: | 320 W. 4TH ST., SUITE 200 |
| City: | LOS ANGELES |
| Email: | mbaiady@waterboards.ca.gov |
| Phone Number: | 2135766699 |

| | |
|---|---|
| Global Id: | T0603787910 |
| Contact Type: | Local Agency Caseworker |
| Contact Name: | ELOY LUNA |
| Organization Name: | LOS ANGELES, CITY OF |

**GAFFEY AND FIFTEENTH ASSOCIATES (Continued)** **S106517285**

Address: 200 North Main Street, Suite 1780
City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

Status History:
Global Id: T0603787910
Status: Completed - Case Closed
Status Date: 01/20/2010

Global Id: T0603787910
Status: Open - Case Begin Date
Status Date: 09/16/2002

Global Id: T0603787910
Status: Open - Site Assessment
Status Date: 09/16/2002

Regulatory Activities:
Global Id: T0603787910
Action Type: ENFORCEMENT
Date: 10/03/2002
Action: Staff Letter

Global Id: T0603787910
Action Type: RESPONSE
Date: 11/04/2002
Action: Other Report / Document

Global Id: T0603787910
Action Type: ENFORCEMENT
Date: 01/20/2010
Action: Closure/No Further Action Letter

Global Id: T0603787910
Action Type: Other
Date: 09/16/2002
Action: Leak Reported

Global Id: T0603787910
Action Type: Other
Date: 09/16/2002
Action: Leak Discovery

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 907310470
Status: Leak being confirmed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported

**GAFFEY AND FIFTEENTH ASSOCIATES (Continued)** **S106517285**

| | | |
|---|---|---|
| Global ID: | T0603787910 | |
| W Global ID: | Not reported | |
| Staff: | MB | |
| Local Agency: | 19050 | |
| Cross Street: | 15TH ST. | |
| Enforcement Type: | SEL | |
| Date Leak Discovered: | 9/16/2002 | |
| Date Leak First Reported: | | 9/16/2002 |
| Date Leak Record Entered: | Not reported | |
| Date Confirmation Began: | 9/16/2002 | |
| Date Leak Stopped: | Not reported | |
| Date Case Last Changed on Database: | | Not reported |
| Date the Case was Closed: | | Not reported |
| How Leak Discovered: | OM | |
| How Leak Stopped: | Not reported | |
| Cause of Leak: | UNK | |
| Leak Source: | UNK | |
| Operator: | Not reported | |
| Water System: | Not reported | |
| Well Name: | Not reported | |
| Approx. Dist To Production Well (ft): | | Not reported |
| Source of Cleanup Funding: | | UNK |
| Preliminary Site Assessment Workplan Submitted: | | Not reported |
| Preliminary Site Assessment Began: | | Not reported |
| Pollution Characterization Began: | | Not reported |
| Remediation Plan Submitted: | | Not reported |
| Remedial Action Underway: | | Not reported |
| Post Remedial Action Monitoring Began: | | Not reported |
| Enforcement Action Date: | | Not reported |
| Historical Max MTBE Date: | | Not reported |
| Hist Max MTBE Conc in Groundwater: | | Not reported |
| Hist Max MTBE Conc in Soil: | | Not reported |
| Significant Interim Remedial Action Taken: | | Not reported |
| GW Qualifier: | Not reported | |
| Soil Qualifier: | Not reported | |
| Organization: | Not reported | |
| Owner Contact: | Not reported | |
| Responsible Party: | GAFFEY | |
| RP Address: | 11440 SAN VICENTE BLVD., #200 | |
| Program: | LUST | |
| Lat/Long: | 0 / 0 | |
| Local Agency Staff: | Not reported | |
| Beneficial Use: | Not reported | |
| Priority: | Not reported | |
| Cleanup Fund Id: | Not reported | |
| Suspended: | Not reported | |
| Assigned Name: | Not reported | |
| Summary: | Not reported | |

**B13** **MOBIL #11-MTD** **LUST** **S104406331**
**East** **1637 GAFFEY** **HIST CORTESE** **N/A**
**1/8-1/4** **SAN PEDRO, CA 90731**
**0.248 mi.**
**1308 ft.** **Site 7 of 10 in cluster B**

**Relative:**
**Lower**

**Actual:**
**91 ft.**

LUST:

| | |
|---|---|
| Region: | STATE |
| Global Id: | T0603701623 |
| Latitude: | 33.729016 |
| Longitude: | -118.292652 |
| Case Type: | LUST Cleanup Site |
| Status: | Completed - Case Closed |
| Status Date: | 07/17/1996 |
| Lead Agency: | LOS ANGELES RWQCB (REGION 4) |
| Case Worker: | YR |
| Local Agency: | LOS ANGELES, CITY OF |
| RB Case Number: | 907310170 |
| LOC Case Number: | Not reported |
| File Location: | Not reported |
| Potential Media Affect: | Aquifer used for drinking water supply |
| Potential Contaminants of Concern: | Waste Oil / Motor / Hydraulic / Lubricating |
| Site History: | Not reported |

Click here to access the California GeoTracker records for this facility:

Contact:

| | |
|---|---|
| Global Id: | T0603701623 |
| Contact Type: | Regional Board Caseworker |
| Contact Name: | YUE RONG |
| Organization Name: | LOS ANGELES RWQCB (REGION 4) |
| Address: | 320 W. 4TH ST., SUITE 200 |
| City: | Los Angeles |
| Email: | yrong@waterboards.ca.gov |
| Phone Number: | Not reported |

| | |
|---|---|
| Global Id: | T0603701623 |
| Contact Type: | Local Agency Caseworker |
| Contact Name: | ELOY LUNA |
| Organization Name: | LOS ANGELES, CITY OF |
| Address: | 200 North Main Street, Suite 1780 |
| City: | LOS ANGELES |
| Email: | eloy.luna@lacity.org |
| Phone Number: | Not reported |

Status History:

| | |
|---|---|
| Global Id: | T0603701623 |
| Status: | Completed - Case Closed |
| Status Date: | 07/17/1996 |

| | |
|---|---|
| Global Id: | T0603701623 |
| Status: | Open - Case Begin Date |
| Status Date: | 09/27/1986 |

Regulatory Activities:

| | |
|---|---|
| Global Id: | T0603701623 |
| Action Type: | Other |
| Date: | 09/27/1986 |
| Action: | Leak Stopped |

**MOBIL #11-MTD (Continued)** **S104406331**

Global Id: T0603701623
Action Type: Other
Date: 09/27/1986
Action: Leak Discovery

Global Id: T0603701623
Action Type: Other
Date: 10/02/1986
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 907310170
Status: Case Closed
Substance: Waste Oil
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Not reported
Global ID: T0603701623
W Global ID: Not reported
Staff: UNK
Local Agency: 19050
Cross Street: 17TH
Enforcement Type: Not reported
Date Leak Discovered: 9/27/1986
Date Leak First Reported: 10/2/1986
Date Leak Record Entered: 12/31/1986
Date Confirmation Began: Not reported
Date Leak Stopped: 9/27/1986
Date Case Last Changed on Database: 6/17/1996
Date the Case was Closed: 7/17/1996
How Leak Discovered: Tank Test
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: Tank
Operator: CHAE, C.K. OLD CASE #000369
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 20992.914668145494268693851776
Source of Cleanup Funding: Tank
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported

**MOBIL #11-MTD (Continued)** **S104406331**

Organization: Not reported
Owner Contact: Not reported
Responsible Party: MOBIL OIL CORPORATION
RP Address: 3800 W ALAMEDA AVE, SUITE 700, BURBANK CA 91505
Program: LUST
Lat/Long: 33.7293627 / -1
Local Agency Staff: PEJ
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 907310170

Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 369

---

**B14** **THRIFTY #184** **HIST CORTESE** **S103635629**
**ESE** **1706 GAFFEY** **N/A**
**1/8-1/4** **SAN PEDRO, CA 90240**
**0.248 mi.**
**1309 ft.** **Site 8 of 10 in cluster B**

**Relative:**
**Lower**

**Actual:**
**89 ft.**

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 907310398

---

**B15** **THRIFTY #184** **LUST** **S103891225**
**ESE** **1706 GAFFEY ST S** **N/A**
**1/8-1/4** **SAN PEDRO, CA 90731**
**0.248 mi.**
**1309 ft.** **Site 9 of 10 in cluster B**

**Relative:**
**Lower**

**Actual:**
**89 ft.**

LUST:
Region: STATE
Global Id: T0603701645
Latitude: 33.728539
Longitude: -118.292038
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 01/10/2005
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: MB
Local Agency: LOS ANGELES, CITY OF
RB Case Number: 907310398
LOC Case Number: Not reported

**THRIFTY #184 (Continued)** **S103891225**

File Location: Not reported
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603701645
Contact Type: Regional Board Caseworker
Contact Name: MAGDY BAIADY
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: LOS ANGELES
Email: mbaiady@waterboards.ca.gov
Phone Number: 2135766699

Global Id: T0603701645
Contact Type: Local Agency Caseworker
Contact Name: ELOY LUNA
Organization Name: LOS ANGELES, CITY OF
Address: 200 North Main Street, Suite 1780
City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

Status History:
Global Id: T0603701645
Status: Open - Site Assessment
Status Date: 09/14/2000

Global Id: T0603701645
Status: Open - Site Assessment
Status Date: 12/19/2000

Global Id: T0603701645
Status: Completed - Case Closed
Status Date: 01/10/2005

Global Id: T0603701645
Status: Open - Case Begin Date
Status Date: 12/05/1997

Global Id: T0603701645
Status: Open - Site Assessment
Status Date: 12/12/1997

Regulatory Activities:
Global Id: T0603701645
Action Type: ENFORCEMENT
Date: 12/19/2000
Action: Staff Letter

Global Id: T0603701645
Action Type: Other
Date: 12/05/1997
Action: Leak Stopped

**THRIFTY #184 (Continued)** **S103891225**

Global Id: T0603701645
Action Type: Other
Date: 12/05/1997
Action: Leak Discovery

Global Id: T0603701645
Action Type: Other
Date: 02/18/1998
Action: Leak Reported

Global Id: T0603701645
Action Type: RESPONSE
Date: 10/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603701645
Action Type: RESPONSE
Date: 10/15/2002
Action: Request for Closure

Global Id: T0603701645
Action Type: RESPONSE
Date: 04/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603701645
Action Type: RESPONSE
Date: 01/15/2003
Action: Request for Closure

Global Id: T0603701645
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603701645
Action Type: RESPONSE
Date: 07/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603701645
Action Type: ENFORCEMENT
Date: 01/10/2005
Action: Closure/No Further Action Letter

Global Id: T0603701645
Action Type: RESPONSE
Date: 01/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603701645
Action Type: RESPONSE
Date: 04/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603701645
Action Type: REMEDIATION

**THRIFTY #184 (Continued)** **S103891225**

Date: 12/05/1997
Action: Excavation

Global Id: T0603701645
Action Type: ENFORCEMENT
Date: 12/30/2004
Action: Site Visit / Inspection / Sampling

Global Id: T0603701645
Action Type: RESPONSE
Date: 10/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603701645
Action Type: RESPONSE
Date: 02/28/2005
Action: Unknown

Global Id: T0603701645
Action Type: RESPONSE
Date: 01/15/2003
Action: Monitoring Report - Quarterly

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 907310398
Status: Pollution Characterization
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Excavate and Dispose
Global ID: T0603701645
W Global ID: Not reported
Staff: RVJ
Local Agency: 19050
Cross Street: 17TH ST
Enforcement Type: LET
Date Leak Discovered: 12/5/1997
Date Leak First Reported: 2/18/1998
Date Leak Record Entered: 4/29/1998
Date Confirmation Began: 12/12/1997
Date Leak Stopped: 12/5/1997
Date Case Last Changed on Database: 7/18/2002
Date the Case was Closed: Not reported
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: Not reported
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 21240.244668453204468226729449
Source of Cleanup Funding: UNK

**THRIFTY #184 (Continued)** **S103891225**

| | |
|---|---|
| Preliminary Site Assessment Workplan Submitted: | 9/14/2000 |
| Preliminary Site Assessment Began: | 9/14/2000 |
| Pollution Characterization Began: | 12/19/2000 |
| Remediation Plan Submitted: | Not reported |
| Remedial Action Underway: | Not reported |
| Post Remedial Action Monitoring Began: | 2/18/1998 |
| Enforcement Action Date: | Not reported |
| Historical Max MTBE Date: | 1/1/1965 |
| Hist Max MTBE Conc in Groundwater: | 830 |
| Hist Max MTBE Conc in Soil: | 59 |
| Significant Interim Remedial Action Taken: | Not reported |
| GW Qualifier: | Not reported |
| Soil Qualifier: | Not reported |
| Organization: | Not reported |
| Owner Contact: | Not reported |
| Responsible Party: | MR. KATERI LUKA |
| RP Address: | 4 CENTERPOINTE DRIVE |
| Program: | LUST |
| Lat/Long: | 33.7287157 / -1 |
| Local Agency Staff: | PEJ |
| Beneficial Use: | Not reported |
| Priority: | Not reported |
| Cleanup Fund Id: | Not reported |
| Suspended: | Not reported |
| Assigned Name: | Not reported |
| Summary: | TANKS REPLACED 12/1/97. 1342.9 TONS OF CONTAMIN. SOIL REMOVEGRAB GW SAMPLE TAKEN FROM BOTTOM OS UST EXCAVATION ; 08/10/98 - SITE ASSESSMENT WORK PLAN; 10/13/00 REVISED SITE ASSESSMENT WP; 3/15/01 ADD'L SITE ASSESSMENT RPT. |

---

**B16** **THRIFTY OIL STN 184** **HIST UST** **U001565583**
**ESE** **1706 GAFFEY** **N/A**
**1/8-1/4** **SAN PEDRO, CA 90731**
**0.248 mi.**
**1309 ft.** **Site 10 of 10 in cluster B**

**Relative:**
**Lower**

**Actual:**
**89 ft.**

HIST UST:

| | |
|---|---|
| File Number: | 00028CA0 |
| URL: | http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028CA0.pdf |
| Region: | STATE |
| Facility ID: | 00000005519 |
| Facility Type: | Gas Station |
| Other Type: | Not reported |
| Contact Name: | Not reported |
| Telephone: | 2139239876 |
| Owner Name: | THRIFTY OIL CO. |
| Owner Address: | 10000 LAKEWOOD BLVD. |
| Owner City,St,Zip: | DOWNEY, CA 90240 |
| Total Tanks: | 0005 |
| | |
| Tank Num: | 001 |
| Container Num: | 1841 |
| Year Installed: | Not reported |
| Tank Capacity: | 00010000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | REGULAR |
| Container Construction Thickness: | 1/4 |
| Leak Detection: | Stock Inventor |

**THRIFTY OIL STN 184 (Continued)** **U001565583**

| | |
|---|---|
| Tank Num: | 002 |
| Container Num: | 1842 |
| Year Installed: | 1979 |
| Tank Capacity: | 00012000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | UNLEADED |
| Container Construction Thickness: | 1/4 |
| Leak Detection: | Stock Inventor |

| | |
|---|---|
| Tank Num: | 003 |
| Container Num: | 1843 |
| Year Installed: | Not reported |
| Tank Capacity: | 00010000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | PREMIUM |
| Container Construction Thickness: | 1/4 |
| Leak Detection: | Stock Inventor |

| | |
|---|---|
| Tank Num: | 004 |
| Container Num: | 1846 |
| Year Installed: | Not reported |
| Tank Capacity: | 00010000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | REGULAR |
| Container Construction Thickness: | 1/4 |
| Leak Detection: | Stock Inventor |

| | |
|---|---|
| Tank Num: | 005 |
| Container Num: | 18410 |
| Year Installed: | Not reported |
| Tank Capacity: | 00000550 |
| Tank Used for: | WASTE |
| Type of Fuel: | WASTE OIL |
| Container Construction Thickness: | 12 |
| Leak Detection: | None |

Click here for Geo Tracker PDF:

---

**17**
**ENE**
**1/8-1/4**
**0.248 mi.**
**1312 ft.**

**LA SEWER OFFICE BUILDING**
**1406 GAFFEY ST**
**SAN PEDRO, CA 90731**

**RCRA-SQG** **1000380735**
**FINDS** **CAD981990658**
**ECHO**

**Relative:**
**Lower**

**Actual:**
**101 ft.**

RCRA-SQG:

| | |
|---|---|
| Date form received by agency: | 03/25/1987 |
| Facility name: | LA SEWER OFFICE BUILDING |
| Facility address: | 1406 GAFFEY ST<br>SAN PEDRO, CA 90731 |
| EPA ID: | CAD981990658 |
| Mailing address: | 200 N MAIN RM EIGHTH HUNDREDCH<br>LOS ANGELES, CA 90731 |
| Contact: | ENVIRONMENTAL MANAGER |
| Contact address: | 1406 GAFFEY ST<br>SAN PEDRO, CA 90731 |
| Contact country: | US |
| Contact telephone: | (213) 485-7527 |
| Contact email: | Not reported |

**LA SEWER OFFICE BUILDING (Continued)** **1000380735**

EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: CITY OF LOS ANGELES
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002768513

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA

**LA SEWER OFFICE BUILDING (Continued)** **1000380735**

program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:
Envid: 1000380735
Registry ID: 110002768513
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002768513

---

**18 ENE 1/4-1/2 0.320 mi. 1689 ft.** **PACIFIC STATES OIL CO.** **ENVIROSTOR** **S107736998 N/A**

**SAN PEDRO, CA**

**Relative: Lower**

**Actual: 107 ft.**

ENVIROSTOR:
Facility ID: 80001125
Status: Inactive - Needs Evaluation
Status Date: 07/01/2005
Site Code: Not reported
Site Type: Military Evaluation
Site Type Detailed: FUDS
Acres: Not reported
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Douglas Bautista
Division Branch: Cleanup Cypress
Assembly: 70
Senate: 35
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 33.73333
Longitude: -118.2916
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CA99799FA45400
Alias Type: Federal Facility ID
Alias Name: J09CA7427
Alias Type: INPR
Alias Name: 80001125
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inventory Project Report (INPR)
Completed Date: 07/01/1999
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported

**PACIFIC STATES OIL CO. (Continued)** **S107736998**

| | |
|---|---|
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |
| Schedule Due Date: | Not reported |
| Schedule Revised Date: | Not reported |

---

**C19** **GSV - SAN PEDRO BUSINESS CENTER** **LUST** **S105180996**
**SE** **2100 GAFFEY ST** **N/A**
**1/4-1/2** **SAN PEDRO, CA 90731**
**0.355 mi.**
**1872 ft.** **Site 1 of 2 in cluster C**

**Relative:**
**Lower**

**Actual:**
**85 ft.**

LUST REG 4:

| | | |
|---|---|---|
| Region: | 4 | |
| Regional Board: | 04 | |
| County: | Los Angeles | |
| Facility Id: | 907310425 | |
| Status: | Leak being confirmed | |
| Substance: | TPHG | |
| Substance Quantity: | Not reported | |
| Local Case No: | UNK | |
| Case Type: | Soil | |
| Abatement Method Used at the Site: | | Not reported |
| Global ID: | T0603799316 | |
| W Global ID: | Not reported | |
| Staff: | Not reported | |
| Local Agency: | Not reported | |
| Cross Street: | WESTMONT DR | |
| Enforcement Type: | Not reported | |
| Date Leak Discovered: | 10/3/2001 | |
| Date Leak First Reported: | | 1/3/2001 |
| Date Leak Record Entered: | Not reported | |
| Date Confirmation Began: | 11/1/2001 | |
| Date Leak Stopped: | Not reported | |
| Date Case Last Changed on Database: | | 10/16/2001 |
| Date the Case was Closed: | | Not reported |
| How Leak Discovered: | OM | |
| How Leak Stopped: | Not reported | |
| Cause of Leak: | Overfill | |
| Leak Source: | Tank | |
| Operator: | MICHAEL SAJJADI | |
| Water System: | Not reported | |
| Well Name: | Not reported | |
| Approx. Dist To Production Well (ft): | | 9999.565316110543307994518154 |
| Source of Cleanup Funding: | | Tank |
| Preliminary Site Assessment Workplan Submitted: | | Not reported |
| Preliminary Site Assessment Began: | | Not reported |
| Pollution Characterization Began: | | Not reported |
| Remediation Plan Submitted: | | Not reported |
| Remedial Action Underway: | | Not reported |
| Post Remedial Action Monitoring Began: | | Not reported |
| Enforcement Action Date: | | Not reported |
| Historical Max MTBE Date: | | Not reported |
| Hist Max MTBE Conc in Groundwater: | | Not reported |
| Hist Max MTBE Conc in Soil: | | Not reported |
| Significant Interim Remedial Action Taken: | | Not reported |

**GSV - SAN PEDRO BUSINESS CENTER (Continued)** **S105180996**

| | |
|---|---|
| GW Qualifier: | Not reported |
| Soil Qualifier: | Not reported |
| Organization: | Not reported |
| Owner Contact: | Not reported |
| Responsible Party: | MICHAEL SAJJADI |
| RP Address: | 1125 W. 190TH ST., SUITE #200 |
| Program: | SLIC |
| Lat/Long: | 33.763946 / -1 |
| Local Agency Staff: | Not reported |
| Beneficial Use: | Not reported |
| Priority: | Not reported |
| Cleanup Fund Id: | Not reported |
| Suspended: | Not reported |
| Assigned Name: | Not reported |
| Summary: | Haz Mat incident report filed |

---

**C20** **BRAY TERMINAL** **LUST S103891223**
**SE** **2115 GAFFEY** **SLIC N/A**
**1/4-1/2** **SAN PEDRO, CA 90732** **HIST CORTESE**
**0.362 mi.**
**1911 ft.** **Site 2 of 2 in cluster C**

**Relative:**
**Lower**

**Actual:**
**96 ft.**

LUST:

| | |
|---|---|
| Region: | STATE |
| Global Id: | T0603701644 |
| Latitude: | 33.724776 |
| Longitude: | -118.292722 |
| Case Type: | LUST Cleanup Site |
| Status: | Completed - Case Closed |
| Status Date: | 04/10/1998 |
| Lead Agency: | LOS ANGELES RWQCB (REGION 4) |
| Case Worker: | JP |
| Local Agency: | LOS ANGELES, CITY OF |
| RB Case Number: | 907310389 |
| LOC Case Number: | Not reported |
| File Location: | Not reported |
| Potential Media Affect: | Aquifer used for drinking water supply |
| Potential Contaminants of Concern: | Diesel |
| Site History: | Not reported |

Click here to access the California GeoTracker records for this facility:

Contact:

| | |
|---|---|
| Global Id: | T0603701644 |
| Contact Type: | Regional Board Caseworker |
| Contact Name: | JOSE PEREYRA |
| Organization Name: | LOS ANGELES RWQCB (REGION 4) |
| Address: | Not reported |
| City: | R4 UNKNOWN |
| Email: | Not reported |
| Phone Number: | Not reported |

| | |
|---|---|
| Global Id: | T0603701644 |
| Contact Type: | Local Agency Caseworker |
| Contact Name: | ELOY LUNA |
| Organization Name: | LOS ANGELES, CITY OF |
| Address: | 200 North Main Street, Suite 1780 |
| City: | LOS ANGELES |

**BRAY TERMINAL (Continued)** **S103891223**

Email: eloy.luna@lacity.org
Phone Number: Not reported

Status History:
Global Id: T0603701644
Status: Completed - Case Closed
Status Date: 04/10/1998

Global Id: T0603701644
Status: Open - Case Begin Date
Status Date: 12/10/1997

Global Id: T0603701644
Status: Open - Site Assessment
Status Date: 02/08/1998

Regulatory Activities:
Global Id: T0603701644
Action Type: Other
Date: 12/10/1997
Action: Leak Stopped

Global Id: T0603701644
Action Type: Other
Date: 12/10/1997
Action: Leak Discovery

Global Id: T0603701644
Action Type: Other
Date: 03/26/1998
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 907310389
Status: Case Closed
Substance: Diesel
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Not reported
Global ID: T0603701644
W Global ID: Not reported
Staff: JP
Local Agency: 19050
Cross Street: WESTMONT DR
Enforcement Type: Not reported
Date Leak Discovered: 12/10/1997
Date Leak First Reported: 3/26/1998
Date Leak Record Entered: 3/27/1998
Date Confirmation Began: Not reported
Date Leak Stopped: 12/10/1997
Date Case Last Changed on Database: 3/26/1998

**BRAY TERMINAL (Continued)** **S103891223**

| | | |
|---|---|---|
| Date the Case was Closed: | | 4/10/1998 |
| How Leak Discovered: | Tank Closure | |
| How Leak Stopped: | Not reported | |
| Cause of Leak: | UNK | |
| Leak Source: | UNK | |
| Operator: | Not reported | |
| Water System: | Not reported | |
| Well Name: | Not reported | |
| Approx. Dist To Production Well (ft): | | 22479.457908039154013585180183 |
| Source of Cleanup Funding: | | UNK |
| Preliminary Site Assessment Workplan Submitted: | | Not reported |
| Preliminary Site Assessment Began: | | Not reported |
| Pollution Characterization Began: | | 2/8/1998 |
| Remediation Plan Submitted: | | Not reported |
| Remedial Action Underway: | | Not reported |
| Post Remedial Action Monitoring Began: | | Not reported |
| Enforcement Action Date: | | Not reported |
| Historical Max MTBE Date: | | Not reported |
| Hist Max MTBE Conc in Groundwater: | | Not reported |
| Hist Max MTBE Conc in Soil: | | Not reported |
| Significant Interim Remedial Action Taken: | | Not reported |
| GW Qualifier: | Not reported | |
| Soil Qualifier: | Not reported | |
| Organization: | Not reported | |
| Owner Contact: | Not reported | |
| Responsible Party: | SLABY TRUST & BRAY C/O SUN-AG | |
| RP Address: | 236 CALLEPINTORESCO, SAN CLEMENTE, CA 92672 | |
| Program: | LUST | |
| Lat/Long: | 33.7250208 / -1 | |
| Local Agency Staff: | PEJ | |
| Beneficial Use: | Not reported | |
| Priority: | Not reported | |
| Cleanup Fund Id: | Not reported | |
| Suspended: | Not reported | |
| Assigned Name: | Not reported | |
| Summary: | CASE TRANSFERRED TO SLIC FOR CLEANUP OVERSIGHT OF JET-A FUELCONTAMINATION NOT ASSOCIATED WITH UNDERGROUND TANKS. | |

SLIC REG 4:

| | |
|---|---|
| Region: | 4 |
| Facility Status: | No further action required |
| SLIC: | 0819 |
| Substance: | TPH |
| Staff: | Not reported |

HIST CORTESE:

| | |
|---|---|
| Region: | CORTESE |
| Facility County Code: | 19 |
| Reg By: | LTNKA |
| Reg Id: | 907310389 |

**21**
**NNE**
**1/4-1/2**
**0.397 mi.**
**2095 ft.**

**CABRILLO ELEMENTARY SCHOOL-PLYGRD ADD.**
**732 SOUTH CABRILLO**
**LOS ANGELES, CA 90731**

**ENVIROSTOR SCH** **S107735978 N/A**

**Relative:**
**Lower**

**Actual:**
**129 ft.**

ENVIROSTOR:

| | |
|---|---|
| Facility ID: | 19750091 |
| Status: | Inactive - Needs Evaluation |
| Status Date: | 02/07/2002 |
| Site Code: | 304297 |
| Site Type: | School Investigation |
| Site Type Detailed: | School |
| Acres: | 0.5 |
| NPL: | NO |
| Regulatory Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Program Manager: | Not reported |
| Supervisor: | Shahir Haddad |
| Division Branch: | Southern California Schools & Brownfields Outreach |
| Assembly: | 70 |
| Senate: | 35 |
| Special Program: | Not reported |
| Restricted Use: | NO |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | School District |
| Latitude: | 33.73669 |
| Longitude: | -118.2929 |
| APN: | 7454006900 |
| Past Use: | VEHICLE MAINTENANCE |
| Potential COC: | NONE SPECIFIED |
| Confirmed COC: | NONE SPECIFIED |
| Potential Description: | NONE SPECIFIED |
| Alias Name: | CABRILLO ELEMENTARY SCHOOL PLAYGROUND |
| Alias Type: | Alternate Name |
| Alias Name: | LAUSD-CABRILLO ES PLAYGROUND ADDITION |
| Alias Type: | Alternate Name |
| Alias Name: | LOS ANGELES UNIFIED SCHOOL DISTRICT |
| Alias Type: | Alternate Name |
| Alias Name: | 7454006900 |
| Alias Type: | APN |
| Alias Name: | 304297 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 19750091 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Cost Recovery Closeout Memo |
| Completed Date: | 02/07/2002 |
| Comments: | Not reported |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Phase 1 |
| Completed Date: | 06/03/2001 |
| Comments: | Not reported |
| Completed Area Name: | PROJECT WIDE |

**CABRILLO ELEMENTARY SCHOOL-PLYGRD ADD. (Continued)** **S107735978**

| | |
|---|---|
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Environmental Oversight Agreement |
| Completed Date: | 02/10/2000 |
| Comments: | Not reported |
| | |
| Future Area Name: | Not reported |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |
| Schedule Due Date: | Not reported |
| Schedule Revised Date: | Not reported |

SCH:

| | |
|---|---|
| Facility ID: | 19750091 |
| Site Type: | School Investigation |
| Site Type Detail: | School |
| Site Mgmt. Req.: | NONE SPECIFIED |
| Acres: | 0.5 |
| National Priorities List: | NO |
| Cleanup Oversight Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Lead Agency Description: | DTSC - Site Cleanup Program |
| Project Manager: | Not reported |
| Supervisor: | Shahir Haddad |
| Division Branch: | Southern California Schools & Brownfields Outreach |
| Site Code: | 304297 |
| Assembly: | 70 |
| Senate: | 35 |
| Special Program Status: | Not reported |
| Status: | Inactive - Needs Evaluation |
| Status Date: | 02/07/2002 |
| Restricted Use: | NO |
| Funding: | School District |
| Latitude: | 33.73669 |
| Longitude: | -118.2929 |
| APN: | 7454006900 |
| Past Use: | VEHICLE MAINTENANCE |
| Potential COC: | NONE SPECIFIED |
| Confirmed COC: | NONE SPECIFIED |
| Potential Description: | NONE SPECIFIED |
| Alias Name: | CABRILLO ELEMENTARY SCHOOL PLAYGROUND |
| Alias Type: | Alternate Name |
| Alias Name: | LAUSD-CABRILLO ES PLAYGROUND ADDITION |
| Alias Type: | Alternate Name |
| Alias Name: | LOS ANGELES UNIFIED SCHOOL DISTRICT |
| Alias Type: | Alternate Name |
| Alias Name: | 7454006900 |
| Alias Type: | APN |
| Alias Name: | 304297 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 19750091 |
| Alias Type: | Envirostor ID Number |

**CABRILLO ELEMENTARY SCHOOL-PLYGRD ADD. (Continued)** **S107735978**

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Cost Recovery Closeout Memo |
| Completed Date: | 02/07/2002 |
| Comments: | Not reported |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Phase 1 |
| Completed Date: | 06/03/2001 |
| Comments: | Not reported |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Environmental Oversight Agreement |
| Completed Date: | 02/10/2000 |
| Comments: | Not reported |
| Future Area Name: | Not reported |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |
| Schedule Due Date: | Not reported |
| Schedule Revised Date: | Not reported |

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**22**
**NE**
**1/4-1/2**
**0.402 mi.**
**2120 ft.**

**MOBIL SERVICE STATION 17873 FORMER** **LUST** **S117333538**
**1001 GAFFEY ST S** **N/A**
**SAN PEDRO, CA 90731**

**Relative:**
**Lower**

**Actual:**
**114 ft.**

LUST:

| | |
|---|---|
| Region: | STATE |
| Global Id: | T10000006302 |
| Latitude: | 33.7360477 |
| Longitude: | -118.2924153 |
| Case Type: | LUST Cleanup Site |
| Status: | Open - Site Assessment |
| Status Date: | 12/03/2014 |
| Lead Agency: | LOS ANGELES RWQCB (REGION 4) |
| Case Worker: | EPL |
| Local Agency: | Not reported |
| RB Case Number: | 907310617 |
| LOC Case Number: | Not reported |
| File Location: | Not reported |
| Potential Media Affect: | Other Groundwater (uses other than drinking water) |
| Potential Contaminants of Concern: | Gasoline |
| Site History: | Not reported |

Click here to access the California GeoTracker records for this facility:

Contact:

| | |
|---|---|
| Global Id: | T10000006302 |
| Contact Type: | Regional Board Caseworker |

**MOBIL SERVICE STATION 17873 FORMER (Continued)** **S117333538**

Contact Name: ERRICK LLAMAS
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W 4th Street Suite 200
City: LOS ANGELES
Email: ellamas@waterboards.ca.gov
Phone Number: 2135766620

Status History:
Global Id: T10000006302
Status: Open - Case Begin Date
Status Date: 02/01/2014

Global Id: T10000006302
Status: Open - Site Assessment
Status Date: 12/03/2014

Regulatory Activities:
Global Id: T10000006302
Action Type: ENFORCEMENT
Date: 09/30/2015
Action: Staff Letter

Global Id: T10000006302
Action Type: RESPONSE
Date: 01/15/2016
Action: Monitoring Report - Semi-Annually

Global Id: T10000006302
Action Type: ENFORCEMENT
Date: 10/21/2014
Action: Referral to Regional Board

Global Id: T10000006302
Action Type: ENFORCEMENT
Date: 12/03/2014
Action: Staff Letter

Global Id: T10000006302
Action Type: RESPONSE
Date: 01/05/2015
Action: Other Report / Document

Global Id: T10000006302
Action Type: RESPONSE
Date: 10/31/2015
Action: Well Installation Workplan - Regulator Responded

Global Id: T10000006302
Action Type: Other
Date: 02/01/2014
Action: Leak Began

Global Id: T10000006302
Action Type: Other
Date: 03/14/2014
Action: Leak Reported

**MOBIL SERVICE STATION 17873 FORMER (Continued)** **S117333538**

| | |
|---|---|
| Global Id: | T10000006302 |
| Action Type: | ENFORCEMENT |
| Date: | 07/31/2015 |
| Action: | Staff Letter |
| Global Id: | T10000006302 |
| Action Type: | Other |
| Date: | 02/01/2014 |
| Action: | Leak Discovery |
| Global Id: | T10000006302 |
| Action Type: | RESPONSE |
| Date: | 12/30/2015 |
| Action: | Well Installation Report |

---

**D23** **SAN PEDRO CAR WASH** **LUST U001565566**
**NE** **735 S GAFFEY ST** **UST N/A**
**1/4-1/2** **SAN PEDRO, CA 90731** **SWEEPS UST**
**0.476 mi.**
**2514 ft.** **Site 1 of 2 in cluster D**

**Relative:**
**Lower**

**Actual:**
**116 ft.**

LUST:

| | |
|---|---|
| Region: | STATE |
| Global Id: | T0603759003 |
| Latitude: | 33.737534 |
| Longitude: | -118.292484 |
| Case Type: | LUST Cleanup Site |
| Status: | Open - Remediation |
| Status Date: | 03/18/2010 |
| Lead Agency: | LOS ANGELES RWQCB (REGION 4) |
| Case Worker: | JW |
| Local Agency: | LOS ANGELES, CITY OF |
| RB Case Number: | 907310461 |
| LOC Case Number: | Not reported |
| File Location: | Regional Board |
| Potential Media Affect: | Aquifer used for drinking water supply |
| Potential Contaminants of Concern: | Gasoline |
| Site History: | Not reported |

Click here to access the California GeoTracker records for this facility:

Contact:

| | |
|---|---|
| Global Id: | T0603759003 |
| Contact Type: | Regional Board Caseworker |
| Contact Name: | JIMMIE WOO |
| Organization Name: | LOS ANGELES RWQCB (REGION 4) |
| Address: | 320 WEST 4TH STREET, SUITE 200 |
| City: | LOS ANGELES |
| Email: | jwoo@waterboards.ca.gov |
| Phone Number: | 2135766600 |
| Global Id: | T0603759003 |
| Contact Type: | Local Agency Caseworker |
| Contact Name: | TBD |
| Organization Name: | LOS ANGELES, CITY OF |
| Address: | 200 N. MAIN ST. RM. 970 |
| City: | LOS ANGELES |

**SAN PEDRO CAR WASH (Continued)** **U001565566**

Email: Not reported
Phone Number: 2134826528

Status History:
Global Id: T0603759003
Status: Open - Case Begin Date
Status Date: 04/04/2000

Global Id: T0603759003
Status: Open - Remediation
Status Date: 05/14/2004

Global Id: T0603759003
Status: Open - Remediation
Status Date: 07/23/2008

Global Id: T0603759003
Status: Open - Remediation
Status Date: 03/18/2010

Global Id: T0603759003
Status: Open - Site Assessment
Status Date: 12/03/2002

Regulatory Activities:
Global Id: T0603759003
Action Type: ENFORCEMENT
Date: 09/13/2002
Action: Staff Letter

Global Id: T0603759003
Action Type: ENFORCEMENT
Date: 12/23/2008
Action: Notice of Violation

Global Id: T0603759003
Action Type: ENFORCEMENT
Date: 03/20/2014
Action: Staff Letter

Global Id: T0603759003
Action Type: RESPONSE
Date: 09/10/2009
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0603759003
Action Type: RESPONSE
Date: 07/15/2015
Action: Monitoring Report - Semi-Annually

Global Id: T0603759003
Action Type: RESPONSE
Date: 08/11/2005
Action: Soil and Water Investigation Workplan

Global Id: T0603759003

**SAN PEDRO CAR WASH (Continued)** **U001565566**

Action Type: RESPONSE
Date: 01/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603759003
Action Type: RESPONSE
Date: 02/27/2009
Action: Soil and Water Investigation Report

Global Id: T0603759003
Action Type: RESPONSE
Date: 01/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603759003
Action Type: RESPONSE
Date: 01/22/2009
Action: Interim Remedial Action Plan

Global Id: T0603759003
Action Type: RESPONSE
Date: 04/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603759003
Action Type: RESPONSE
Date: 07/15/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0603759003
Action Type: RESPONSE
Date: 07/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603759003
Action Type: RESPONSE
Date: 07/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603759003
Action Type: ENFORCEMENT
Date: 06/06/2003
Action: Staff Letter

Global Id: T0603759003
Action Type: RESPONSE
Date: 07/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603759003
Action Type: RESPONSE
Date: 01/15/2003
Action: Soil and Water Investigation Workplan

Global Id: T0603759003
Action Type: ENFORCEMENT
Date: 01/08/2015

**SAN PEDRO CAR WASH (Continued)** **U001565566**

Action: Staff Letter

Global Id: T0603759003
Action Type: ENFORCEMENT
Date: 01/05/2012
Action: Staff Letter

Global Id: T0603759003
Action Type: RESPONSE
Date: 12/22/2011
Action: Well Installation Workplan

Global Id: T0603759003
Action Type: Other
Date: 06/18/2002
Action: Leak Reported

Global Id: T0603759003
Action Type: RESPONSE
Date: 07/15/2015
Action: Well Installation Report

Global Id: T0603759003
Action Type: ENFORCEMENT
Date: 06/15/2009
Action: Staff Letter

Global Id: T0603759003
Action Type: ENFORCEMENT
Date: 11/15/2012
Action: Staff Letter

Global Id: T0603759003
Action Type: RESPONSE
Date: 10/15/2003
Action: Soil and Water Investigation Report

Global Id: T0603759003
Action Type: RESPONSE
Date: 04/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603759003
Action Type: RESPONSE
Date: 07/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603759003
Action Type: RESPONSE
Date: 05/23/2014
Action: Corrective Action Plan / Remedial Action Plan - Regulator Responded

Global Id: T0603759003
Action Type: RESPONSE
Date: 05/23/2014
Action: Soil and Water Investigation Workplan - Regulator Responded

**SAN PEDRO CAR WASH (Continued)** **U001565566**

Global Id: T0603759003
Action Type: ENFORCEMENT
Date: 03/18/2010
Action: Staff Letter

Global Id: T0603759003
Action Type: Other
Date: 04/04/2000
Action: Leak Discovery

Global Id: T0603759003
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603759003
Action Type: RESPONSE
Date: 03/15/2003
Action: Preliminary Site Assessment Report

Global Id: T0603759003
Action Type: RESPONSE
Date: 09/01/2003
Action: Soil and Water Investigation Workplan

Global Id: T0603759003
Action Type: RESPONSE
Date: 01/15/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0603759003
Action Type: RESPONSE
Date: 04/11/2012
Action: Well Installation Report

Global Id: T0603759003
Action Type: RESPONSE
Date: 06/13/2012
Action: Other Report / Document

Global Id: T0603759003
Action Type: RESPONSE
Date: 10/30/2008
Action: Monitoring Report - Annually

Global Id: T0603759003
Action Type: RESPONSE
Date: 07/15/2015
Action: Interim Remedial Action Report

Global Id: T0603759003
Action Type: ENFORCEMENT
Date: 07/23/2008
Action: Staff Letter

Global Id: T0603759003
Action Type: ENFORCEMENT

**SAN PEDRO CAR WASH (Continued)** **U001565566**

Date: 05/20/2011
Action: Staff Letter

Global Id: T0603759003
Action Type: ENFORCEMENT
Date: 01/31/2011
Action: Staff Letter

Global Id: T0603759003
Action Type: RESPONSE
Date: 04/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603759003
Action Type: RESPONSE
Date: 10/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603759003
Action Type: RESPONSE
Date: 01/15/2015
Action: Monitoring Report - Semi-Annually

Global Id: T0603759003
Action Type: RESPONSE
Date: 10/31/2002
Action: Other Report / Document

Global Id: T0603759003
Action Type: ENFORCEMENT
Date: 11/30/2010
Action: Petition Submitted for Review

Global Id: T0603759003
Action Type: ENFORCEMENT
Date: 12/03/2002
Action: Staff Letter

Global Id: T0603759003
Action Type: ENFORCEMENT
Date: 07/23/2003
Action: Staff Letter

Global Id: T0603759003
Action Type: ENFORCEMENT
Date: 01/26/2003
Action: Technical Correspondence / Assistance / Other

Global Id: T0603759003
Action Type: RESPONSE
Date: 09/23/2010
Action: Request for Closure

Global Id: T0603759003
Action Type: RESPONSE
Date: 04/29/2009
Action: Well Installation Report

**SAN PEDRO CAR WASH (Continued)** **U001565566**

Global Id: T0603759003
Action Type: RESPONSE
Date: 04/01/2010
Action: Monitoring Report - Other

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 907310461
Status: Pollution Characterization
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603759003
W Global ID: Not reported
Staff: RVJ
Local Agency: 19050
Cross Street: Not reported
Enforcement Type: SEL
Date Leak Discovered: 4/4/2000
Date Leak First Reported: 6/18/2002
Date Leak Record Entered: Not reported
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 9/18/2002
Date the Case was Closed: Not reported
How Leak Discovered: OM
How Leak Stopped: NPP
Cause of Leak: UNK
Leak Source: Not reported
Operator: Not reported
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): Not reported
Source of Cleanup Funding: Not reported
Preliminary Site Assessment Workplan Submitted: 6/18/2002
Preliminary Site Assessment Began: 3/15/2003
Pollution Characterization Began: 7/9/2003
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: WINDY S. BROWN
RP Address: 9605 ARROW ROUTE, SUITE T
Program: LUST

**SAN PEDRO CAR WASH (Continued)** **U001565566**

Lat/Long: 0 / 0
Local Agency Staff: Not reported
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: Not reported

UST:
Facility ID: 23548
Permitting Agency: LOS ANGELES, CITY OF
Latitude: 33.7388454
Longitude: -118.2912239

SWEEPS UST:
Status: Active
Comp Number: 629
Number: 2
Board Of Equalization: 44-011313
Referral Date: 02-24-93
Action Date: 03-15-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-000629-000001
Tank Status: A
Capacity: 10000
Active Date: 04-20-88
Tank Use: M. V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 3

Status: Active
Comp Number: 629
Number: 2
Board Of Equalization: 44-011313
Referral Date: 02-24-93
Action Date: 03-15-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-000629-000002
Tank Status: A
Capacity: 10000
Active Date: 04-20-88
Tank Use: M. V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Status: Active
Comp Number: 629
Number: 2
Board Of Equalization: 44-011313
Referral Date: 02-24-93
Action Date: 03-15-94

**SAN PEDRO CAR WASH (Continued)** **U001565566**

| | |
|---|---|
| Created Date: | 02-29-88 |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 19-050-000629-000003 |
| Tank Status: | A |
| Capacity: | 10000 |
| Active Date: | 04-20-88 |
| Tank Use: | M. V. FUEL |
| STG: | P |
| Content: | REG UNLEADED |
| Number Of Tanks: | Not reported |

---

**E24** **AUTO BODY SHOP** **ENVIROSTOR** **S102860906**
**East** **1505-1555 SOUTH PACIFIC AVENUE** **N/A**
**1/4-1/2** **SAN PEDRO, CA 90731**
**0.482 mi.**
**2545 ft.** **Site 1 of 2 in cluster E**

**Relative:**
**Lower**

**Actual:**
**81 ft.**

ENVIROSTOR:

| | |
|---|---|
| Facility ID: | 19750081 |
| Status: | Inactive - Needs Evaluation |
| Status Date: | 01/21/1999 |
| Site Code: | 400566 |
| Site Type: | Historical |
| Site Type Detailed: | * Historical |
| Acres: | 1.1 |
| NPL: | NO |
| Regulatory Agencies: | US EPA |
| Lead Agency: | US EPA |
| Program Manager: | Not reported |
| Supervisor: | * Rebecca Chou |
| Division Branch: | Cleanup Chatsworth |
| Assembly: | 70 |
| Senate: | 35 |
| Special Program: | Not reported |
| Restricted Use: | NO |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | Not reported |
| Latitude: | 33.73029 |
| Longitude: | -118.2883 |
| APN: | 7454032025 |
| Past Use: | NONE SPECIFIED |
| Potential COC: | * HALOGENATED ORGANIC COMPOUNDS * HALOGENATED SOLVENTS * HYDROCARBON SOLVENTS * OXYGENATED SOLVENTS * UNSPECIFIED OIL CONTAINING WASTE * UNSPECIFIED SOLVENT MIXTURES * WASTE OIL & MIXED OIL * ORGANIC LIQUIDS (NONSOLVENTS) WITH HALOGENS |
| Confirmed COC: | NONE SPECIFIED |
| Potential Description: | NONE SPECIFIED |
| Alias Name: | ANGEL'S AUTO SERVICE |
| Alias Type: | Alternate Name |
| Alias Name: | BANK OF SAN PEDRO |
| Alias Type: | Alternate Name |
| Alias Name: | PLAZA AUTOMOTIVE CENTER |
| Alias Type: | Alternate Name |
| Alias Name: | 7454032025 |
| Alias Type: | APN |
| Alias Name: | CAD981071978 |
| Alias Type: | EPA Identification Number |
| Alias Name: | 400566 |

**AUTO BODY SHOP (Continued)** **S102860906**

Alias Type: Project Code (Site Code)
Alias Name: 19750081
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 09/20/1996
Comments: A Preliminary Assessment was completed under U.S. EPA grant. The site does not qualify for further remedial assessment under CERCLA (Site Evaluation Accomplished), however, PEA is recommended.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/17/1995
Comments: The Department received a non-emergency hazardous substance release report dated March 24, 1995. The groundwater at the site is contaminated with trichloroethene. Due to evidence of contamination, the Department recommended that a PEA be conducted and notified the RP. FDIC, in its capacity as a Receiver for the Bank of San Pedro, involuntarily acquired the property as a result of the closure of the Bank on July 15 , 1994.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

---

**E25**
**East**
**1/4-1/2**
**0.482 mi.**
**2545 ft.**

**AUTO BODY SHOP** **SEMS-ARCHIVE** **1003880060**
**1505-1555 SOUTH PACIFIC AVE** **CA0001159151**
**SAN PEDRO, CA 90731**

**Site 2 of 2 in cluster E**

**Relative:**
**Lower**

**Actual:**
**81 ft.**

SEMS-ARCHIVE:
Site ID: 905285
EPA ID: CA0001159151
Federal Facility: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

**Following information was gathered from the prior CERCLIS update completed in 10/2013:**
Site ID: 0905285
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13288489.00000
Person ID: 13003854.00000

**AUTO BODY SHOP (Continued)** **1003880060**

Contact Sequence ID: 13294084.00000
Person ID: 13003858.00000

Contact Sequence ID: 13299942.00000
Person ID: 13004003.00000

CERCLIS-NFRAP Site Alias Name(s):
Alias Name: PLAZA AUTOMOTIVE CENTER
Alias Address: Not reported
CA

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: / /
Date Completed: 08/23/95
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 09/23/96
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 09/23/96
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

---

**D26** **PCBNA BRANCH OFFICE** **LUST** **S105180843**
**NE** **740 GAFFEY ST** **N/A**
**1/4-1/2** **SAN PEDRO, CA 90731**
**0.484 mi.**
**2554 ft.** **Site 2 of 2 in cluster D**

**Relative:**
**Lower**

**Actual:**
**115 ft.**

LUST:
Region: STATE
Global Id: T0603799301
Latitude: 33.737655
Longitude: -118.292134
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 07/16/2008
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: YL
Local Agency: LOS ANGELES COUNTY
RB Case Number: 907310416
LOC Case Number: UNKNOWN
File Location: Regional Board
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603799301
Contact Type: Local Agency Caseworker
Contact Name: PERCY E. JONES

**PCBNA BRANCH OFFICE (Continued)** **S105180843**

Organization Name: LOS ANGELES COUNTY
Address: NOADDRESS
City: NOCITY
Email: Not reported
Phone Number: 2134857543

Global Id: T0603799301
Contact Type: Regional Board Caseworker
Contact Name: YI LU
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: Not reported
City: R4 UNKNOWN
Email: ylu@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603799301
Status: Completed - Case Closed
Status Date: 07/16/2008

Global Id: T0603799301
Status: Open - Case Begin Date
Status Date: 01/27/2001

Global Id: T0603799301
Status: Open - Remediation
Status Date: 08/03/2004

Global Id: T0603799301
Status: Open - Site Assessment
Status Date: 09/26/2001

Global Id: T0603799301
Status: Open - Site Assessment
Status Date: 05/23/2002

Global Id: T0603799301
Status: Open - Site Assessment
Status Date: 11/15/2007

Global Id: T0603799301
Status: Open - Verification Monitoring
Status Date: 07/19/2001

Global Id: T0603799301
Status: Open - Verification Monitoring
Status Date: 03/24/2006

Regulatory Activities:
Global Id: T0603799301
Action Type: ENFORCEMENT
Date: 09/26/2001
Action: Staff Letter

Global Id: T0603799301
Action Type: RESPONSE

**PCBNA BRANCH OFFICE (Continued)** **S105180843**

Date: 10/15/2007
Action: Soil and Water Investigation Workplan

Global Id: T0603799301
Action Type: ENFORCEMENT
Date: 09/23/2004
Action: Staff Letter

Global Id: T0603799301
Action Type: RESPONSE
Date: 11/30/2001
Action: Soil and Water Investigation Workplan

Global Id: T0603799301
Action Type: RESPONSE
Date: 07/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603799301
Action Type: Other
Date: 07/19/2001
Action: Leak Reported

Global Id: T0603799301
Action Type: RESPONSE
Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603799301
Action Type: RESPONSE
Date: 04/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603799301
Action Type: RESPONSE
Date: 04/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603799301
Action Type: RESPONSE
Date: 04/15/2003
Action: Other Report / Document

Global Id: T0603799301
Action Type: RESPONSE
Date: 11/30/2001
Action: Soil and Water Investigation Workplan

Global Id: T0603799301
Action Type: RESPONSE
Date: 10/15/2007
Action: Soil and Water Investigation Report

Global Id: T0603799301
Action Type: RESPONSE
Date: 10/15/2007
Action: Monitoring Report - Quarterly

**PCBNA BRANCH OFFICE (Continued)** **S105180843**

Global Id: T0603799301
Action Type: RESPONSE
Date: 03/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603799301
Action Type: RESPONSE
Date: 01/27/2001
Action: Other Report / Document

Global Id: T0603799301
Action Type: RESPONSE
Date: 07/15/2007
Action: Well Installation Report

Global Id: T0603799301
Action Type: RESPONSE
Date: 07/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603799301
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603799301
Action Type: ENFORCEMENT
Date: 04/06/2007
Action: Staff Letter

Global Id: T0603799301
Action Type: RESPONSE
Date: 08/03/2004
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0603799301
Action Type: RESPONSE
Date: 11/30/2002
Action: Soil and Water Investigation Report

Global Id: T0603799301
Action Type: RESPONSE
Date: 10/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603799301
Action Type: ENFORCEMENT
Date: 02/04/2003
Action: Staff Letter

Global Id: T0603799301
Action Type: ENFORCEMENT
Date: 07/16/2008
Action: Closure/No Further Action Letter

Global Id: T0603799301
Action Type: ENFORCEMENT

**PCBNA BRANCH OFFICE (Continued)** **S105180843**

Date: 09/09/2002
Action: * Corrective Action Orders

Global Id: T0603799301
Action Type: RESPONSE
Date: 09/07/2004
Action: CAP/RAP - Other Report

Global Id: T0603799301
Action Type: REMEDIATION
Date: 08/23/2004
Action: Excavation

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 907310416
Status: Preliminary site assessment underway
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: UNKNOWN
Case Type: Undefined
Abatement Method Used at the Site: Not reported
Global ID: T0603799301
W Global ID: Not reported
Staff: RVJ
Local Agency: 19000
Cross Street: 8TH ST
Enforcement Type: SEL
Date Leak Discovered: Not reported
Date Leak First Reported: 7/19/2001
Date Leak Record Entered: Not reported
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 8/22/2001
Date the Case was Closed: Not reported
How Leak Discovered: OM
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: MS. ANITA WOLMAN, ESQ.
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 18232.765473765686357134655512
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: 9/26/2001
Preliminary Site Assessment Began: 9/26/2001
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: 7/19/2001
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported

**PCBNA BRANCH OFFICE (Continued)** **S105180843**

| | | |
|---|---|---|
| Significant Interim Remedial Action Taken: | | Not reported |
| GW Qualifier: | Not reported | |
| Soil Qualifier: | Not reported | |
| Organization: | Not reported | |
| Owner Contact: | Not reported | |
| Responsible Party: | MS. ANITA WOLMAN, ESQ. | |
| RP Address: | 4180 BARRANCA PKWY. | |
| Program: | LUST | |
| Lat/Long: | 33.737655 / -1 | |
| Local Agency Staff: | Not reported | |
| Beneficial Use: | Not reported | |
| Priority: | Not reported | |
| Cleanup Fund Id: | Not reported | |
| Suspended: | Not reported | |
| Assigned Name: | Not reported | |
| Summary: | Haz Mat incident report filed | |

---

**F27** **SHELL SERVICE STATION (FORMER)** **LUST** **S105690588**
**East** **1631 PACIFIC AVE.** **N/A**
**1/4-1/2** **SAN PEDRO, CA 90731**
**0.498 mi.**
**2627 ft.** **Site 1 of 3 in cluster F**

**Relative:**
**Lower**

**Actual:**
**76 ft.**

LUST REG 4:

| | | |
|---|---|---|
| Region: | 4 | |
| Regional Board: | 04 | |
| County: | Los Angeles | |
| Facility Id: | 907310370A | |
| Status: | Pollution Characterization | |
| Substance: | Hydrocarbons | |
| Substance Quantity: | Not reported | |
| Local Case No: | Not reported | |
| Case Type: | Soil | |
| Abatement Method Used at the Site: | | Not reported |
| Global ID: | T0603711450 | |
| W Global ID: | Not reported | |
| Staff: | JW | |
| Local Agency: | 19050 | |
| Cross Street: | 17TH ST. | |
| Enforcement Type: | SEL | |
| Date Leak Discovered: | 8/10/2001 | |
| Date Leak First Reported: | | 1/28/2002 |
| Date Leak Record Entered: | Not reported | |
| Date Confirmation Began: | Not reported | |
| Date Leak Stopped: | Not reported | |
| Date Case Last Changed on Database: | | 5/13/2002 |
| Date the Case was Closed: | | Not reported |
| How Leak Discovered: | OM | |
| How Leak Stopped: | Close Tank | |
| Cause of Leak: | UNK | |
| Leak Source: | UNK | |
| Operator: | Not reported | |
| Water System: | Not reported | |
| Well Name: | Not reported | |
| Approx. Dist To Production Well (ft): | | 21527.652357705548592368297499 |
| Source of Cleanup Funding: | | UNK |
| Preliminary Site Assessment Workplan Submitted: | | Not reported |
| Preliminary Site Assessment Began: | | Not reported |

**SHELL SERVICE STATION (FORMER) (Continued)** **S105690588**

| | |
|---|---|
| Pollution Characterization Began: | 8/22/2003 |
| Remediation Plan Submitted: | Not reported |
| Remedial Action Underway: | Not reported |
| Post Remedial Action Monitoring Began: | 1/28/2002 |
| Enforcement Action Date: | Not reported |
| Historical Max MTBE Date: | 12/5/2003 |
| Hist Max MTBE Conc in Groundwater: | 210 |
| Hist Max MTBE Conc in Soil: | 1300 |
| Significant Interim Remedial Action Taken: | Not reported |
| GW Qualifier: | = |
| Soil Qualifier: | = |
| Organization: | Not reported |
| Owner Contact: | Not reported |
| Responsible Party: | MONICA CASH |
| RP Address: | P.O. BOX 7869 |
| Program: | LUST |
| Lat/Long: | 33.729267 / -1 |
| Local Agency Staff: | PEJ |
| Beneficial Use: | Not reported |
| Priority: | Not reported |
| Cleanup Fund Id: | Not reported |
| Suspended: | Not reported |
| Assigned Name: | Not reported |
| Summary: | LA CITY FD. REFERRED CASE TO LARWQCB DATED 2/26/02 |

---

**F28** **SHELL** **LUST** **S105126370**
**East** **1631 PACIFIC** **HIST CORTESE** **N/A**
**1/4-1/2** **SAN PEDRO, CA 90731**
**0.498 mi.**
**2627 ft.** **Site 2 of 3 in cluster F**

**Relative:**
**Lower**

**Actual:**
**76 ft.**

LUST:

| | |
|---|---|
| Region: | STATE |
| Global Id: | T0603711450 |
| Latitude: | 33.729267 |
| Longitude: | -118.288064 |
| Case Type: | LUST Cleanup Site |
| Status: | Completed - Case Closed |
| Status Date: | 12/02/2004 |
| Lead Agency: | LOS ANGELES RWQCB (REGION 4) |
| Case Worker: | JW |
| Local Agency: | LOS ANGELES, CITY OF |
| RB Case Number: | 907310370A |
| LOC Case Number: | Not reported |
| File Location: | Not reported |
| Potential Media Affect: | Soil |
| Potential Contaminants of Concern: | Other Solvent or Non-Petroleum Hydrocarbon |
| Site History: | Not reported |

Click here to access the California GeoTracker records for this facility:

Contact:

| | |
|---|---|
| Global Id: | T0603711450 |
| Contact Type: | Regional Board Caseworker |
| Contact Name: | JIMMIE WOO |
| Organization Name: | LOS ANGELES RWQCB (REGION 4) |
| Address: | 320 WEST 4TH STREET, SUITE 200 |
| City: | LOS ANGELES |

**SHELL (Continued)** **S105126370**

Email: jwoo@waterboards.ca.gov
Phone Number: 2135766600

Global Id: T0603711450
Contact Type: Local Agency Caseworker
Contact Name: ELOY LUNA
Organization Name: LOS ANGELES, CITY OF
Address: 200 North Main Street, Suite 1780
City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

Status History:
Global Id: T0603711450
Status: Completed - Case Closed
Status Date: 12/02/2004

Global Id: T0603711450
Status: Open - Case Begin Date
Status Date: 08/10/2001

Global Id: T0603711450
Status: Open - Site Assessment
Status Date: 08/22/2003

Regulatory Activities:
Global Id: T0603711450
Action Type: ENFORCEMENT
Date: 08/22/2003
Action: Staff Letter

Global Id: T0603711450
Action Type: Other
Date: 01/28/2002
Action: Leak Reported

Global Id: T0603711450
Action Type: ENFORCEMENT
Date: 03/14/2002
Action: Staff Letter

Global Id: T0603711450
Action Type: ENFORCEMENT
Date: 02/13/2003
Action: Staff Letter

Global Id: T0603711450
Action Type: RESPONSE
Date: 10/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603711450
Action Type: Other
Date: 08/10/2001
Action: Leak Discovery

**SHELL (Continued)** **S105126370**

Global Id: T0603711450
Action Type: RESPONSE
Date: 04/12/2002
Action: Other Report / Document

Global Id: T0603711450
Action Type: RESPONSE
Date: 04/15/2003
Action: Soil and Water Investigation Workplan

Global Id: T0603711450
Action Type: RESPONSE
Date: 11/14/2003
Action: Well Installation Report

Global Id: T0603711450
Action Type: RESPONSE
Date: 01/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603711450
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603711450
Action Type: RESPONSE
Date: 10/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603711450
Action Type: ENFORCEMENT
Date: 11/10/2004
Action: Notification - Preclosure

Global Id: T0603711450
Action Type: ENFORCEMENT
Date: 12/02/2004
Action: Closure/No Further Action Letter

Global Id: T0603711450
Action Type: RESPONSE
Date: 04/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603711450
Action Type: ENFORCEMENT
Date: 04/16/2003
Action: Technical Correspondence / Assistance / Other

Global Id: T0603711450
Action Type: RESPONSE
Date: 03/01/2005
Action: Unknown

**SHELL (Continued)** **S105126370**

HIST CORTESE:
- Region: CORTESE
- Facility County Code: Not reported
- Reg By: Not reported
- Reg Id: Not reported

---

**F29** **SHELL SERVICE STATION 136043** **RCRA-SQG 1000288460**
**East** **1631 W PACIFIC** **LUST CAD981406036**
**1/4-1/2** **SAN PEDRO, CA 90731** **FINDS**
**0.498 mi.** **ECHO**
**2627 ft.** **Site 3 of 3 in cluster F**

**Relative: Lower**

**Actual: 76 ft.**

RCRA-SQG:
- Date form received by agency: 02/28/2002
- Facility name: SHELL SERVICE STATION 136043
- Facility address: 1631 W PACIFIC
  SAN PEDRO, CA 90731
- EPA ID: CAD981406036
- Mailing address: PO BOX 2648
  HOUSTON, TX 77252
- Contact: SONDRA E BIENVENU
- Contact address: Not reported
  Not reported
- Contact country: US
- Contact telephone: (713) 241-5036
- Contact email: Not reported
- EPA Region: 09
- Classification: Small Small Quantity Generator
- Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Handler Activities Summary:
- U.S. importer of hazardous waste: No
- Mixed waste (haz. and radioactive): No
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: No
- Furnace exemption: No
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No

Historical Generators:
- Date form received by agency: 02/28/2002
- Site name: SHELL SERVICE STATION 136043
- Classification: Large Quantity Generator

**SHELL SERVICE STATION 136043 (Continued)** **1000288460**

Date form received by agency: 04/08/1998
Site name: SHELL OIL CO
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

Date form received by agency: 09/01/1996
Site name: SHELL OIL CO
Classification: Small Quantity Generator

Violation Status: No violations found

LUST:
Region: STATE
Global Id: T0603701643
Latitude: 33.7293908
Longitude: -118.2879844
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 10/01/1998
Lead Agency: LOS ANGELES, CITY OF
Case Worker: EL
Local Agency: LOS ANGELES, CITY OF
RB Case Number: 907310370
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603701643
Contact Type: Local Agency Caseworker
Contact Name: ELOY LUNA
Organization Name: LOS ANGELES, CITY OF
Address: 200 North Main Street, Suite 1780
City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

Global Id: T0603701643
Contact Type: Regional Board Caseworker
Contact Name: UNKNOWN
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W 4TH STREET
City: LOS ANGELES
Email: Not reported
Phone Number: Not reported

Status History:
Global Id: T0603701643
Status: Completed - Case Closed

**SHELL SERVICE STATION 136043 (Continued)** **1000288460**

Status Date: 10/01/1998

Global Id: T0603701643
Status: Open - Case Begin Date
Status Date: 10/23/1989

Global Id: T0603701643
Status: Open - Site Assessment
Status Date: 10/23/1989

Regulatory Activities:
Global Id: T0603701643
Action Type: Other
Date: 10/23/1989
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 907310370
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603701643
W Global ID: Not reported
Staff: Not reported
Local Agency: 19050
Cross Street: Not reported
Enforcement Type: Not reported
Date Leak Discovered: Not reported
Date Leak First Reported: 10/23/1989
Date Leak Record Entered: 11/1/1989
Date Confirmation Began: 10/23/1989
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 10/1/1998
Date the Case was Closed: 10/1/1998
How Leak Discovered: Not reported
How Leak Stopped: Not reported
Cause of Leak: Not reported
Leak Source: Not reported
Operator: OLD CASENO WAS 110189-03
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 21496.095806136823492540697158
Source of Cleanup Funding: Not reported
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported

**SHELL SERVICE STATION 136043 (Continued)** **1000288460**

Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: SHELL OIL COMPANY
RP Address: P.O. BOX 4848, ANAHEIM, 92801
Program: LUST
Lat/Long: 33.7293908 / -1
Local Agency Staff: PEJ
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: Not reported

FINDS:

Registry ID: 110002697109

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER

ECHO:
Envid: 1000288460
Registry ID: 110002697109
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002697109

---

**30**
**SW**
**1/2-1**
**0.715 mi.**
**3773 ft.**

**Relative:**
**Higher**

**Actual:**
**382 ft.**

**PACIFIC VIEW INVESTMENTS** **ENVIROSTOR** **S107027311**
**1415-1460 W. 25TH ST.** **N/A**
**SAN PEDRO, CA 90732**

ENVIROSTOR:
Facility ID: 19670002
Status: Refer: 1248 Local Agency
Status Date: 02/19/2003
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED

**PACIFIC VIEW INVESTMENTS (Continued)** **S107027311**

Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Cypress
Assembly: 54
Senate: Not reported
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not Applicable
Latitude: 0
Longitude: 0
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 19670002
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

---

**31**
**NE**
**1/2-1**
**0.727 mi.**
**3840 ft.**

**RICHARDS CLEANERS**
**538 WEST 5TH STREET**
**SAN PEDRO, CA 90731**

**RESPONSE** **S108054419**
**ENVIROSTOR** **N/A**
**Cortese**

**Relative:**
**Lower**

**Actual:**
**89 ft.**

RESPONSE:
Facility ID: 60000408
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: 0.34
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Joseph Cully
Supervisor: Douglas Bautista
Division Branch: Cleanup Cypress
Site Code: 401317
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 70
Senate: 35

**RICHARDS CLEANERS (Continued)** **S108054419**

| | |
|---|---|
| Special Program Status: | Not reported |
| Status: | Active |
| Status Date: | 09/19/2013 |
| Restricted Use: | NO |
| Funding: | Responsible Party |
| Latitude: | 33.73992 |
| Longitude: | -118.2888 |
| APN: | 7451-027-004 |
| Past Use: | DRY CLEANING |
| Potential COC : | Tetrachloroethylene (PCE TPH-gas Trichloroethylene (TCE |
| Confirmed COC: | Tetrachloroethylene (PCE TPH-gas Trichloroethylene (TCE |
| Potential Description: | AQUI, OTH, SOIL, SV |
| Alias Name: | 7451-027-004 |
| Alias Type: | APN |
| Alias Name: | 110033606578 |
| Alias Type: | EPA (FRS #) |
| Alias Name: | 401317 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 60000408 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Letter - Demand |
| Completed Date: | 11/16/2010 |
| Comments: | Second Collection Letter sent certified mail. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Unilateral Order (I/SE, RAO, CAO, EPA AO) |
| Completed Date: | 11/07/2008 |
| Comments: | The Order was issued on November 7, 2008. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | PRP Identification Memorandum |
| Completed Date: | 06/25/2015 |
| Comments: | Not reported |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Correspondence |
| Completed Date: | 11/13/2014 |
| Comments: | Not reported |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Annual Oversight Cost Estimate |
| Completed Date: | 10/13/2009 |
| Comments: | Letter sent out on October 13, 2009. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Letter - Demand |
| Completed Date: | 12/10/2009 |
| Comments: | Cost Recovery Demand Letter Sent certified mail |

**RICHARDS CLEANERS (Continued)** **S108054419**

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Correspondence |
| Completed Date: | 03/09/2010 |
| Comments: | Final letter from DTSC went out on 3/9/2010. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Letter - Demand |
| Completed Date: | 10/28/2009 |
| Comments: | Cost Recovery Demand Letter sent. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Letter - Demand |
| Completed Date: | 10/11/2010 |
| Comments: | Cost Recovery letter sent for past due invoice balances. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Correspondence |
| Completed Date: | 04/18/2011 |
| Comments: | Not reported |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Letter - Demand |
| Completed Date: | 01/30/2012 |
| Comments: | Reminder sent regarding unpaid past due invoices. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Letter - Demand |
| Completed Date: | 12/20/2010 |
| Comments: | Final collection letter sent. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Preliminary Endangerment Assessment Workplan |
| Completed Date: | 08/09/2007 |
| Comments: | Not reported |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Remedial Investigation Workplan |
| Completed Date: | 11/23/2009 |
| Comments: | On November 23, 2009, DTSC stated that the addendum to the RI/FS workplan submitted on November 4, 2009 was complete, and the workplan was therefore approved. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Preliminary Endangerment Assessment Report |
| Completed Date: | 05/01/2008 |
| Comments: | Not reported |
| Completed Area Name: | PROJECT WIDE |

**RICHARDS CLEANERS (Continued)** **S108054419**

Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 01/26/2009
Comments: Geologist approved modified workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 08/27/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 01/05/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 03/17/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 06/30/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 06/30/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 07/26/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 09/07/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 07/28/2011
Comments: No further changes in the report are required by DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 08/24/2011

**RICHARDS CLEANERS (Continued)** **S108054419**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 07/28/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 07/28/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 07/28/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 07/28/2011
Comments: Groundwater monitoring report was approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 02/21/2012
Comments: This report was approved by DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 05/29/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 09/19/2011
Comments: No further revisions were required. The consultant was simply involved to apply comments to future groundwater monitoring reports.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 03/05/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 03/21/2012
Comments: Not reported

**RICHARDS CLEANERS (Continued)** **S108054419**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 03/05/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 04/26/2012
Comments: No changes were requested. Comments were made to be incorporated into future groundwater monitoring reports.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 08/16/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 11/30/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/30/2005
Comments: DTSC had no comments on this document.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/25/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Memorandum of Agreement - IAG
Completed Date: 10/16/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/26/2010
Comments: Sent letter on October 26, 2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/01/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

**RICHARDS CLEANERS (Continued)** **S108054419**

Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/29/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Litigation Support
Completed Date: 06/25/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 08/16/2006
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 60000408
Status: Active
Status Date: 09/19/2013
Site Code: 401317
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 0.34
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Joseph Cully
Supervisor: Douglas Bautista
Division Branch: Cleanup Cypress
Assembly: 70
Senate: 35
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 33.73992
Longitude: -118.2888
APN: 7451-027-004
Past Use: DRY CLEANING
Potential COC: Tetrachloroethylene (PCE TPH-gas Trichloroethylene (TCE
Confirmed COC: Tetrachloroethylene (PCE TPH-gas Trichloroethylene (TCE
Potential Description: AQUI, OTH, SOIL, SV
Alias Name: 7451-027-004
Alias Type: APN
Alias Name: 110033606578
Alias Type: EPA (FRS #)

**RICHARDS CLEANERS (Continued)** **S108054419**

Alias Name: 401317
Alias Type: Project Code (Site Code)
Alias Name: 60000408
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 11/16/2010
Comments: Second Collection Letter sent certified mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 11/07/2008
Comments: The Order was issued on November 7, 2008.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PRP Identification Memorandum
Completed Date: 06/25/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/13/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/13/2009
Comments: Letter sent out on October 13, 2009.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 12/10/2009
Comments: Cost Recovery Demand Letter Sent certified mail

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/09/2010
Comments: Final letter from DTSC went out on 3/9/2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 10/28/2009
Comments: Cost Recovery Demand Letter sent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 10/11/2010

**RICHARDS CLEANERS (Continued)** **S108054419**

| | |
|---|---|
| Comments: | Cost Recovery letter sent for past due invoice balances. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Correspondence |
| Completed Date: | 04/18/2011 |
| Comments: | Not reported |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Letter - Demand |
| Completed Date: | 01/30/2012 |
| Comments: | Reminder sent regarding unpaid past due invoices. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Letter - Demand |
| Completed Date: | 12/20/2010 |
| Comments: | Final collection letter sent. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Preliminary Endangerment Assessment Workplan |
| Completed Date: | 08/09/2007 |
| Comments: | Not reported |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Remedial Investigation Workplan |
| Completed Date: | 11/23/2009 |
| Comments: | On November 23, 2009, DTSC stated that the addendum to the RI/FS workplan submitted on November 4, 2009 was complete, and the workplan was therefore approved. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Preliminary Endangerment Assessment Report |
| Completed Date: | 05/01/2008 |
| Comments: | Not reported |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Technical Workplan |
| Completed Date: | 01/26/2009 |
| Comments: | Geologist approved modified workplan. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Long Term Monitoring Report |
| Completed Date: | 08/27/2009 |
| Comments: | Not reported |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Operations and Maintenance Report |
| Completed Date: | 01/05/2010 |
| Comments: | Not reported |

**RICHARDS CLEANERS (Continued)** **S108054419**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 03/17/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 06/30/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 06/30/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 07/26/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 09/07/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 07/28/2011
Comments: No further changes in the report are required by DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 08/24/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 07/28/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 07/28/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report

**RICHARDS CLEANERS (Continued)** **S108054419**

Completed Date: 07/28/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 07/28/2011
Comments: Groundwater monitoring report was approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 02/21/2012
Comments: This report was approved by DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 05/29/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 09/19/2011
Comments: No further revisions were required. The consultant was simply involved to apply comments to future groundwater monitoring reports.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 03/05/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 03/21/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 03/05/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 04/26/2012
Comments: No changes were requested. Comments were made to be incorporated into future groundwater monitoring reports.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 08/16/2012

**RICHARDS CLEANERS (Continued)** **S108054419**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 11/30/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/30/2005
Comments: DTSC had no comments on this document.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/25/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Memorandum of Agreement - IAG
Completed Date: 10/16/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/26/2010
Comments: Sent letter on October 26, 2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/01/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/29/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Litigation Support
Completed Date: 06/25/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 08/16/2006
Comments: Not reported

Future Area Name: Not reported

**RICHARDS CLEANERS (Continued)** **S108054419**

| | |
|---|---|
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |
| Schedule Due Date: | Not reported |
| Schedule Revised Date: | Not reported |

CORTESE:

| | |
|---|---|
| Region: | CORTESE |
| Envirostor Id: | 60000408 |
| Site/Facility Type: | STATE RESPONSE |
| Cleanup Status: | ACTIVE |
| Status Date: | 09/19/2013 |
| Site Code: | 401317 |
| Latitude: | 33.739920 |
| Longitude: | -118.28884 |
| Owner: | Not reported |
| Enf Type: | Not reported |
| Swat R: | Not reported |
| Flag: | envirostor |
| Order No: | Not reported |
| Waste Discharge System No: | Not reported |
| Effective Date: | Not reported |
| Region 2: | Not reported |
| WID Id: | Not reported |
| Solid Waste Id No: | Not reported |
| Waste Management Uit Name: | Not reported |

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**32** **LA DIST. ENGINEER OFFICE AND YARD** **ENVIROSTOR** **S107736565**
**SW** **N/A**
**1/2-1** **LOS ANGELES, CA**
**0.803 mi.**
**4239 ft.**

**Relative:**
**Higher**

**Actual:**
**375 ft.**

ENVIROSTOR:

| | |
|---|---|
| Facility ID: | 80001023 |
| Status: | Inactive - Needs Evaluation |
| Status Date: | 07/01/2005 |
| Site Code: | Not reported |
| Site Type: | Military Evaluation |
| Site Type Detailed: | FUDS |
| Acres: | Not reported |
| NPL: | NO |
| Regulatory Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Program Manager: | Not reported |
| Supervisor: | Douglas Bautista |
| Division Branch: | Cleanup Cypress |
| Assembly: | 70 |
| Senate: | 35 |
| Special Program: | Not reported |
| Restricted Use: | NO |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | DERA |
| Latitude: | 33.72222 |

**LA DIST. ENGINEER OFFICE AND YARD (Continued)** **S107736565**

Longitude: -118.3125
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CA99799FA41400
Alias Type: Federal Facility ID
Alias Name: J09CA7387
Alias Type: INPR
Alias Name: 80001023
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inventory Project Report (INPR)
Completed Date: 07/21/1999
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

---

**33**
**WSW**
**1/2-1**
**0.828 mi.**
**4371 ft.**

**Relative:**
**Higher**

**Actual:**
**373 ft.**

**LUCKY CLEANERS**
**1609 W 25TH STREET**
**SAN PEDRO, CA 90732**

**RCRA-SQG** **1000273348**
**ENVIROSTOR** **CAD982471997**
**VCP**
**DEED**
**FINDS**
**DRYCLEANERS**
**EMI**
**HAZNET**
**ECHO**

RCRA-SQG:
Date form received by agency: 02/11/1994
Facility name: LUCKY CLEANERS
Facility address: 1609 W 25TH STREET
SAN PEDRO, CA 90732
EPA ID: CAD982471997
Contact: SANG SUCK SEO
Contact address: 1609 W 25TH STREET
SAN PEDRO, CA 90732
Contact country: US
Contact telephone: (213) 832-7494
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

**LUCKY CLEANERS (Continued)** **1000273348**

hazardous waste at any time

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | SANG SUCK SEO |
| Owner/operator address: | 1609 W 25TH ST |
| | SAN PEDRO, CA 90732 |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | (310) 832-7294 |
| Legal status: | Private |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

| | |
|---|---|
| Owner/operator name: | NOT REQUIRED |
| Owner/operator address: | NOT REQUIRED |
| | NOT REQUIRED, ME 99999 |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | (415) 555-1212 |
| Legal status: | Private |
| Owner/Operator Type: | Operator |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

Handler Activities Summary:

| | |
|---|---|
| U.S. importer of hazardous waste: | No |
| Mixed waste (haz. and radioactive): | No |
| Recycler of hazardous waste: | No |
| Transporter of hazardous waste: | No |
| Treater, storer or disposer of HW: | No |
| Underground injection activity: | No |
| On-site burner exemption: | No |
| Furnace exemption: | No |
| Used oil fuel burner: | No |
| Used oil processor: | No |
| User oil refiner: | No |
| Used oil fuel marketer to burner: | No |
| Used oil Specification marketer: | No |
| Used oil transfer facility: | No |
| Used oil transporter: | No |

Violation Status: No violations found

ENVIROSTOR:

| | |
|---|---|
| Facility ID: | 19590005 |
| Status: | Certified O&M - Land Use Restrictions Only |
| Status Date: | 03/28/2006 |
| Site Code: | 400932 |
| Site Type: | Voluntary Cleanup |
| Site Type Detailed: | Voluntary Cleanup |
| Acres: | 2 |
| NPL: | NO |
| Regulatory Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Program Manager: | Joseph Cully |
| Supervisor: | Douglas Bautista |
| Division Branch: | Cleanup Cypress |
| Assembly: | 70 |

**LUCKY CLEANERS (Continued)** **1000273348**

Senate: 35
Special Program: Voluntary Cleanup Program
Restricted Use: YES
Site Mgmt Req: DAY, ELD, HOS, SCH, RES
Funding: Responsible Party
Latitude: 33.72337
Longitude: -118.3135
APN: 7563-016-016
Past Use: DRY CLEANING
Potential COC: * HALOGENATED SOLVENTS
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL, SV
Alias Name: LUCKY DRY CLEANERS
Alias Type: Alternate Name
Alias Name: SOUTH SHORES CENTER
Alias Type: Alternate Name
Alias Name: 7563-016-016
Alias Type: APN
Alias Name: 110033608175
Alias Type: EPA (FRS #)
Alias Name: 400932
Alias Type: Project Code (Site Code)
Alias Name: 19590005
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 07/18/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 03/28/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 12/10/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/28/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 07/29/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

**LUCKY CLEANERS (Continued)** **1000273348**

| | |
|---|---|
| Completed Document Type: | Land Use Restriction - Site Inspection/Visit |
| Completed Date: | 06/29/2010 |
| Comments: | Inspection made on 6/22/2010. Found to be in compliance with Land Use Covenant restrictions. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Land Use Restriction - Site Inspection/Visit |
| Completed Date: | 03/18/2014 |
| Comments: | Not reported |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Voluntary Cleanup Agreement |
| Completed Date: | 08/31/2001 |
| Comments: | Not reported |
| Future Area Name: | Not reported |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |
| Schedule Due Date: | Not reported |
| Schedule Revised Date: | Not reported |

VCP:

| | |
|---|---|
| Facility ID: | 19590005 |
| Site Type: | Voluntary Cleanup |
| Site Type Detail: | Voluntary Cleanup |
| Site Mgmt. Req.: | DAY, ELD, HOS, SCH, RES |
| Acres: | 2 |
| National Priorities List: | NO |
| Cleanup Oversight Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Lead Agency Description: | DTSC - Site Cleanup Program |
| Project Manager: | Joseph Cully |
| Supervisor: | Douglas Bautista |
| Division Branch: | Cleanup Cypress |
| Site Code: | 400932 |
| Assembly: | 70 |
| Senate: | 35 |
| Special Programs Code: | Voluntary Cleanup Program |
| Status: | Certified O&M - Land Use Restrictions Only |
| Status Date: | 03/28/2006 |
| Restricted Use: | YES |
| Funding: | Responsible Party |
| Lat/Long: | 33.72337 / -118.3135 |
| APN: | 7563-016-016 |
| Past Use: | DRY CLEANING |
| Potential COC: | 10003 |
| Confirmed COC: | NONE SPECIFIED |
| Potential Description: | SOIL, SV |
| Alias Name: | LUCKY DRY CLEANERS |
| Alias Type: | Alternate Name |
| Alias Name: | SOUTH SHORES CENTER |

**LUCKY CLEANERS (Continued)** **1000273348**

Alias Type: Alternate Name
Alias Name: 7563-016-016
Alias Type: APN
Alias Name: 110033608175
Alias Type: EPA (FRS #)
Alias Name: 400932
Alias Type: Project Code (Site Code)
Alias Name: 19590005
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 07/18/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 03/28/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 12/10/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/28/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 07/29/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/29/2010
Comments: Inspection made on 6/22/2010. Found to be in compliance with Land Use Covenant restrictions.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 03/18/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 08/31/2001

**LUCKY CLEANERS (Continued)** **1000273348**

Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

DEED:
Envirostor ID: 19590005
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: VOLUNTARY CLEANUP
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 03/28/2006

FINDS:

Registry ID: 110002820458

Environmental Interest/Information System
California Department of Toxic Substances Control EnviroStor System (DTSC-EnviroStor) is an online search and Geographic Information System (GIS) tool for identifying sites that have known contamination or sites for which there may be reasons to investigate further. The EnviroStor database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites.

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

DRYCLEANERS:
EPA Id: CAD982471997
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 06/15/1989

**LUCKY CLEANERS (Continued)** **1000273348**

| | |
|---|---|
| Facility Active: | No |
| Inactive Date: | Not reported |
| Facility Addr2: | Not reported |
| Owner Name: | KEVIN TOON OH |
| Owner Address: | 1609 W 25TH ST |
| Owner Address 2: | Not reported |
| Owner Telephone: | 3108327294 |
| Contact Name: | KEVIN TOON OH |
| Contact Address: | 1609 W 25TH ST |
| Contact Address 2: | Not reported |
| Contact Telephone: | 3108327294 |
| Mailing Name: | Not reported |
| Mailing Address 1: | 1609 W 25TH ST |
| Mailing Address 2: | Not reported |
| Mailing City: | SAN PEDRO |
| Mailing State: | CA |
| Mailing Zip: | 907324301 |
| Owner Fax: | 3 |
| Region Code: | Not reported |

EMI:

| | |
|---|---|
| Year: | 1990 |
| County Code: | 19 |
| Air Basin: | SC |
| Facility ID: | 60836 |
| Air District Name: | SC |
| SIC Code: | 7216 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 1 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers & Smllr Tons/Yr: | 0 |

HAZNET:

| | |
|---|---|
| envid: | 1000273348 |
| Year: | 2007 |
| GEPAID: | CAD982471997 |
| Contact: | KEVIN TOON OH |
| Telephone: | 3108327294 |
| Mailing Name: | Not reported |
| Mailing Address: | 1609 W 25TH ST |
| Mailing City,St,Zip: | SAN PEDRO, CA 907324301 |
| Gen County: | Not reported |
| TSD EPA ID: | NVR000076158 |
| TSD County: | Not reported |
| Waste Category: | Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.) |
| Disposal Method: | Solvents Recovery |
| Tons: | Not reported |
| Cat Decode: | Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.) |
| Method Decode: | Solvents Recovery |
| Facility County: | Los Angeles |

**LUCKY CLEANERS (Continued)** **1000273348**

envid: 1000273348
Year: 2007
GEPAID: CAD982471997
Contact: KEVIN TOON OH
Telephone: 3108327294
Mailing Name: Not reported
Mailing Address: 1609 W 25TH ST
Mailing City,St,Zip: SAN PEDRO, CA 907324301
Gen County: Not reported
TSD EPA ID: NVR000076158
TSD County: Not reported
Waste Category: Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: Solvents Recovery
Tons: Not reported
Cat Decode: Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Method Decode: Solvents Recovery
Facility County: Los Angeles

envid: 1000273348
Year: 2007
GEPAID: CAD982471997
Contact: KEVIN TOON OH
Telephone: 3108327294
Mailing Name: Not reported
Mailing Address: 1609 W 25TH ST
Mailing City,St,Zip: SAN PEDRO, CA 907324301
Gen County: Not reported
TSD EPA ID: NVR000076158
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Solvents Recovery
Tons: Not reported
Cat Decode: Aqueous solution with total organic residues less than 10 percent
Method Decode: Solvents Recovery
Facility County: Los Angeles

envid: 1000273348
Year: 2007
GEPAID: CAD982471997
Contact: KEVIN TOON OH
Telephone: 3108327294
Mailing Name: Not reported
Mailing Address: 1609 W 25TH ST
Mailing City,St,Zip: SAN PEDRO, CA 907324301
Gen County: Not reported
TSD EPA ID: NVR000076158
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Solvents Recovery
Tons: Not reported
Cat Decode: Aqueous solution with total organic residues less than 10 percent
Method Decode: Solvents Recovery
Facility County: Los Angeles

envid: 1000273348
Year: 2007
GEPAID: CAD982471997

**LUCKY CLEANERS (Continued)** **1000273348**

| | |
|---|---|
| Contact: | KEVIN TOON OH |
| Telephone: | 3108327294 |
| Mailing Name: | Not reported |
| Mailing Address: | 1609 W 25TH ST |
| Mailing City,St,Zip: | SAN PEDRO, CA 907324301 |
| Gen County: | Not reported |
| TSD EPA ID: | NVR000076158 |
| TSD County: | Not reported |
| Waste Category: | Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc) |
| Disposal Method: | Solvents Recovery |
| Tons: | 0.75 |
| Cat Decode: | Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc) |
| Method Decode: | Solvents Recovery |
| Facility County: | Los Angeles |

Click this hyperlink while viewing on your computer to access
23 additional CA_HAZNET: record(s) in the EDR Site Report.

ECHO:

| | |
|---|---|
| Envid: | 1000273348 |
| Registry ID: | 110002820458 |
| DFR URL: | http://echo.epa.gov/detailed_facility_report?fid=110002820458 |

---

**34** **WHITE POINT NIKE SITE** **ENVIROSTOR** **S107737612**
**SW** **N/A**
**1/2-1** **FT MACARTHUR, CA**
**0.861 mi.**
**4548 ft.**

**Relative:**
**Higher**

**Actual:**
**355 ft.**

ENVIROSTOR:

| | |
|---|---|
| Facility ID: | 80000731 |
| Status: | Inactive - Needs Evaluation |
| Status Date: | 07/01/2005 |
| Site Code: | Not reported |
| Site Type: | Military Evaluation |
| Site Type Detailed: | FUDS |
| Acres: | Not reported |
| NPL: | NO |
| Regulatory Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Program Manager: | Not reported |
| Supervisor: | Douglas Bautista |
| Division Branch: | Cleanup Cypress |
| Assembly: | 70 |
| Senate: | 35 |
| Special Program: | Not reported |
| Restricted Use: | NO |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | DERA |
| Latitude: | 33.72083 |
| Longitude: | -118.3125 |
| APN: | NONE SPECIFIED |
| Past Use: | NONE SPECIFIED |
| Potential COC: | NONE SPECIFIED |
| Confirmed COC: | NONE SPECIFIED |
| Potential Description: | NONE SPECIFIED |

**WHITE POINT NIKE SITE (Continued)** **S107737612**

Alias Name: CA99799F811600
Alias Type: Federal Facility ID
Alias Name: J09CA7007
Alias Type: INPR
Alias Name: 80000731
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inventory Project Report (INPR)
Completed Date: 04/25/1993
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

---

**35**
**NNE**
**1/2-1**
**0.867 mi.**
**4577 ft.**

**OCEAN PARK CLEANERS** **ENVIROSTOR** **S106843138**
**114 N. GAFFEY STREET** **N/A**
**SAN PEDRO, CA 90731**

**Relative:**
**Lower**

**Actual:**
**136 ft.**

ENVIROSTOR:
Facility ID: 19720032
Status: Refer: 1248 Local Agency
Status Date: 06/13/2001
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Cypress
Assembly: 54
Senate: Not reported
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not Applicable
Latitude: 0
Longitude: 0
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 19720032

**OCEAN PARK CLEANERS (Continued)** **S106843138**

Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: SB 1248 Notification
Completed Date: 06/08/2001
Comments: SB 1248 Los Angeles County

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

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**36**
**South**
**1/2-1**
**0.898 mi.**
**4743 ft.**

**SOUTH REGION HIGH SCHOOL NO. 15** **ENVIROSTOR** **S103652543**
**3200 SOUTH ALMA STREET** **SCH** **N/A**
**SAN PEDRO, CA 90731** **DEED**
**NPDES**

**Relative:**
**Higher**

**Actual:**
**200 ft.**

ENVIROSTOR:
Facility ID: 60000787
Status: Certified O&M - Land Use Restrictions Only
Status Date: 05/28/2013
Site Code: 304583
Site Type: School Cleanup
Site Type Detailed: School
Acres: 38.8
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Aslam Shareef
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 70
Senate: 35
Special Program: Not reported
Restricted Use: YES
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.71738
Longitude: -118.2996
APN: 7469012031, 7469017900, 7469018905
Past Use: AIRCRAFT MAINTENANCE, AIRFIELD OPERATIONS, RESIDENTIAL AREA
Potential COC: Arsenic Chlordane Dioxin (as 2,3,7,8-TCDD TEQ Lead Polynuclear aromatic hydrocarbons (PAHs TPH-diesel
Confirmed COC: Arsenic Chlordane Polynuclear aromatic hydrocarbons (PAHs TPH-diesel Lead Dioxin (as 2,3,7,8-TCDD TEQ
Potential Description: SOIL
Alias Name: John M. and Muriel Olguin Campus
Alias Type: Alternate Name
Alias Name: SRHS #15
Alias Type: Alternate Name

**SOUTH REGION HIGH SCHOOL NO. 15 (Continued)** **S103652543**

Alias Name: SRHS#15
Alias Type: Alternate Name
Alias Name: San Pedro HS: John M. and Muriel Olguin Campus
Alias Type: Alternate Name
Alias Name: San Pedro High School
Alias Type: Alternate Name
Alias Name: San Pedro High School: John M. and Muriel Olguin Campus
Alias Type: Alternate Name
Alias Name: South Region High School #15
Alias Type: Alternate Name
Alias Name: South Region High School#15
Alias Type: Alternate Name
Alias Name: 7469012031
Alias Type: APN
Alias Name: 7469017900
Alias Type: APN
Alias Name: 7469018905
Alias Type: APN
Alias Name: 304583
Alias Type: Project Code (Site Code)
Alias Name: 60000787
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 01/11/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 07/16/2009
Comments: DTSC finalized CEQA Negative Declaration along with the Remedial Action Plan approval .

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/22/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 10/15/2009
Comments: DTSC received signed agreement from District

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/14/2008
Comments: Phase I received as background information for the project.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report

**SOUTH REGION HIGH SCHOOL NO. 15 (Continued)** **S103652543**

Completed Date: 10/09/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 11/14/2008
Comments: Following the phone message left for the district on November 12, 2008, an official e-mail was sent to the district confirming the close out of the deliverable

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 01/28/2009
Comments: SSI approval letter for further action processed on January 28, 2009.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 07/16/2009
Comments: DTSC approved the Remedial Action Plan for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 05/11/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.15 Request
Completed Date: 10/20/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 01/12/2010
Comments: DTSC approved the Remedial Action Completion Report with No Further Action Determination for Area 1 and 5

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 01/26/2010
Comments: DTSC approved the Remedial Action Completion Report with No Further Action Determination for Area 4

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/26/2012
Comments: DTSC approved the Removal Action Completion Report provided DTSC comments are incorporated in the Land Use Controls.

Completed Area Name: PROJECT WIDE

**SOUTH REGION HIGH SCHOOL NO. 15 (Continued)** **S103652543**

Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 03/26/2013
Comments: DTSC approved the Removal Action Completion Report with a No Further Action determination

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 01/28/2015
Comments: Hello Dane, DTSC reviewed the Land Use Covenant (LUC) Inspection Report for the year 2014, prepared by Los Angeles Unified School District (LAUSD), and received on January 15, 2015. The Report concludes that the information was obtained through reasonable inquiry and visual observation, the LUC buildings (Building # 921, 929, 930, 943, 944, 945, and 948) and environs are in compliance with the LUC for the current reporting period of January 1, 2014 through December 31, 2014. DTSC concurs with the conclusion and hereby approves the Report. Please feel free to contact me if you have any questions. Thanks, Aslam Shareef Hazardous Substances Engineer Schools Evaluation and Brownfields Cleanup Program Department of Toxic Substances Control (DTSC) 5796 Corporate Avenue Cypress, CA-90630 (714)484-5308 Ashareef@dtsc.ca.gov

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 08/31/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 02/26/2013
Comments: DTSC was informed thur email on the recorded LUC

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Land Use Restriction Monitoring Report
Completed Date: 05/07/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 07/18/2013
Comments: DTSC prepared project close out Cost Recovery Unit Memorandum.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 05/28/2013
Comments: DTSC certified that response action according to the DTSC-approved RAP is complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

**SOUTH REGION HIGH SCHOOL NO. 15 (Continued)** **S103652543**

| | |
|---|---|
| Completed Document Type: | Annual Oversight Cost Estimate |
| Completed Date: | 09/08/2014 |
| Comments: | Not reported |
| | |
| Future Area Name: | PROJECT WIDE |
| Future Sub Area Name: | Not reported |
| Future Document Type: | 5 Year Review Reports |
| Future Due Date: | 2018 |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |
| Schedule Due Date: | Not reported |
| Schedule Revised Date: | Not reported |

SCH:

| | |
|---|---|
| Facility ID: | 60000787 |
| Site Type: | School Cleanup |
| Site Type Detail: | School |
| Site Mgmt. Req.: | NONE SPECIFIED |
| Acres: | 38.8 |
| National Priorities List: | NO |
| Cleanup Oversight Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Lead Agency Description: | DTSC - Site Cleanup Program |
| Project Manager: | Aslam Shareef |
| Supervisor: | Shahir Haddad |
| Division Branch: | Southern California Schools & Brownfields Outreach |
| Site Code: | 304583 |
| Assembly: | 70 |
| Senate: | 35 |
| Special Program Status: | Not reported |
| Status: | Certified O&M - Land Use Restrictions Only |
| Status Date: | 05/28/2013 |
| Restricted Use: | YES |
| Funding: | School District |
| Latitude: | 33.71738 |
| Longitude: | -118.2996 |
| APN: | 7469012031, 7469017900, 7469018905 |
| Past Use: | AIRCRAFT MAINTENANCE, AIRFIELD OPERATIONS, RESIDENTIAL AREA |
| Potential COC: | Arsenic, Chlordane, Dioxin (as 2,3,7,8-TCDD TEQ, Lead, Polynuclear aromatic hydrocarbons (PAHs, TPH-diesel |
| Confirmed COC: | Arsenic, Chlordane, Polynuclear aromatic hydrocarbons (PAHs, TPH-diesel, Lead, Dioxin (as 2,3,7,8-TCDD TEQ |
| Potential Description: | SOIL |
| Alias Name: | John M. and Muriel Olguin Campus |
| Alias Type: | Alternate Name |
| Alias Name: | SRHS #15 |
| Alias Type: | Alternate Name |
| Alias Name: | SRHS#15 |
| Alias Type: | Alternate Name |
| Alias Name: | San Pedro HS: John M. and Muriel Olguin Campus |
| Alias Type: | Alternate Name |
| Alias Name: | San Pedro High School |
| Alias Type: | Alternate Name |
| Alias Name: | San Pedro High School: John M. and Muriel Olguin Campus |
| Alias Type: | Alternate Name |

**SOUTH REGION HIGH SCHOOL NO. 15 (Continued)** **S103652543**

Alias Name: South Region High School #15
Alias Type: Alternate Name
Alias Name: South Region High School#15
Alias Type: Alternate Name
Alias Name: 7469012031
Alias Type: APN
Alias Name: 7469017900
Alias Type: APN
Alias Name: 7469018905
Alias Type: APN
Alias Name: 304583
Alias Type: Project Code (Site Code)
Alias Name: 60000787
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 01/11/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 07/16/2009
Comments: DTSC finalized CEQA Negative Declaration along with the Remedial Action Plan approval .

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/22/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 10/15/2009
Comments: DTSC received signed agreement from District

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/14/2008
Comments: Phase I received as background information for the project.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 10/09/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 11/14/2008
Comments: Following the phone message left for the district on November 12,

**SOUTH REGION HIGH SCHOOL NO. 15 (Continued)** **S103652543**

2008, an official e-mail was sent to the district confirming the close out of the deliverable

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 01/28/2009
Comments: SSI approval letter for further action processed on January 28, 2009.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 07/16/2009
Comments: DTSC approved the Remedial Action Plan for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 05/11/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.15 Request
Completed Date: 10/20/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 01/12/2010
Comments: DTSC approved the Remedial Action Completion Report with No Further Action Determination for Area 1 and 5

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 01/26/2010
Comments: DTSC approved the Remedial Action Completion Report with No Further Action Determination for Area 4

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/26/2012
Comments: DTSC approved the Removal Action Completion Report provided DTSC comments are incorporated in the Land Use Controls.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 03/26/2013
Comments: DTSC approved the Removal Action Completion Report with a No Further Action determination

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

**SOUTH REGION HIGH SCHOOL NO. 15 (Continued)** **S103652543**

| | |
|---|---|
| Completed Document Type: | Land Use Restriction Monitoring Report |
| Completed Date: | 01/28/2015 |
| Comments: | Hello Dane, DTSC reviewed the Land Use Covenant (LUC) Inspection Report for the year 2014, prepared by Los Angeles Unified School District (LAUSD), and received on January 15, 2015. The Report concludes that the information was obtained through reasonable inquiry and visual observation, the LUC buildings (Building # 921, 929, 930, 943, 944, 945, and 948) and environs are in compliance with the LUC for the current reporting period of January 1, 2014 through December 31, 2014. DTSC concurs with the conclusion and hereby approves the Report. Please feel free to contact me if you have any questions. Thanks, Aslam Shareef Hazardous Substances Engineer Schools Evaluation and Brownfields Cleanup Program Department of Toxic Substances Control (DTSC) 5796 Corporate Avenue Cypress, CA-90630 (714)484-5308 Ashareef@dtsc.ca.gov |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Supplemental Site Investigation Report |
| Completed Date: | 08/31/2015 |
| Comments: | Not reported |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Land Use Restriction |
| Completed Date: | 02/26/2013 |
| Comments: | DTSC was informed thur email on the recorded LUC |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | * Land Use Restriction Monitoring Report |
| Completed Date: | 05/07/2014 |
| Comments: | Not reported |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Cost Recovery Closeout Memo |
| Completed Date: | 07/18/2013 |
| Comments: | DTSC prepared project close out Cost Recovery Unit Memorandum. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Certification |
| Completed Date: | 05/28/2013 |
| Comments: | DTSC certified that response action according to the DTSC-approved RAP is complete. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Annual Oversight Cost Estimate |
| Completed Date: | 09/08/2014 |
| Comments: | Not reported |
| Future Area Name: | PROJECT WIDE |
| Future Sub Area Name: | Not reported |
| Future Document Type: | 5 Year Review Reports |
| Future Due Date: | 2018 |

**SOUTH REGION HIGH SCHOOL NO. 15 (Continued)** **S103652543**

Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

DEED:
Envirostor ID: 60000787
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: SCHOOL CLEANUP
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 02/26/2013

NPDES:
Npdes Number: Not reported
Facility Status: Not reported
Agency Id: Not reported
Region: 4
Regulatory Measure Id: 433373
Order No: Not reported
Regulatory Measure Type: Construction
Place Id: Not reported
WDID: 4 19C365329
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: 2/24/2014
Discharge Name: Not reported
Discharge Address: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
RECEIVED DATE: 12/18/2012
PROCESSED DATE: 1/2/2013
STATUS CODE NAME: Terminated
STATUS DATE: 3/24/2014
PLACE SIZE: 1
PLACE SIZE UNIT: Acres
FACILITY CONTACT NAME: Bob Barker
FACILITY CONTACT TITLE: Resident Construciton Engineer
FACILITY CONTACT PHONE: 562-552-6976
FACILITY CONTACT PHONE EXT: Not reported
FACILITY CONTACT EMAIL: bob.barker@lausd.net
OPERATOR NAME: Los Angeles Unified School District
OPERATOR ADDRESS: 333 S Beaudry Ave
OPERATOR CITY: Los Angeles
OPERATOR STATE: California
OPERATOR ZIP: 90017
OPERATOR CONTACT NAME: Talal Balaa
OPERATOR CONTACT TITLE: Supervising Civil Engineer
OPERATOR CONTACT PHONE: 213-241-8763
OPERATOR CONTACT PHONE EXT: Not reported

**SOUTH REGION HIGH SCHOOL NO. 15 (Continued)** **S103652543**

| | |
|---|---|
| OPERATOR CONTACT EMAIL: | talal.balaa@lausd.net |
| OPERATOR TYPE: | State Agency |
| DEVELOPER NAME: | Los Angeles Unified School District |
| DEVELOPER ADDRESS: | 333 S Beaudry Ave |
| DEVELOPER CITY: | Los Angeles |
| DEVELOPER STATE: | California |
| DEVELOPER ZIP: | 90017 |
| DEVELOPER CONTACT NAME: | Bob Barker |
| DEVELOPER CONTACT TITLE: | Resident Construction Engineer |
| CONSTYPE LINEAR UTILITY IND: | N |
| EMERGENCY PHONE NO: | Not reported |
| EMERGENCY PHONE EXT: | Not reported |
| CONSTYPE ABOVE GROUND IND: | N |
| CONSTYPE BELOW GROUND IND: | N |
| CONSTYPE CABLE LINE IND: | N |
| CONSTYPE COMM LINE IND: | N |
| CONSTYPE COMMERTIAL IND: | N |
| CONSTYPE ELECTRICAL LINE IND: | N |
| CONSTYPE GAS LINE IND: | N |
| CONSTYPE INDUSTRIAL IND: | N |
| CONSTYPE OTHER DESRIPTION: | Educational |
| CONSTYPE OTHER IND: | N |
| CONSTYPE RECONS IND: | N |
| CONSTYPE RESIDENTIAL IND: | N |
| CONSTYPE TRANSPORT IND: | N |
| CONSTYPE UTILITY DESCRIPTION: | Not reported |
| CONSTYPE UTILITY IND: | N |
| CONSTYPE WATER SEWER IND: | N |
| DIR DISCHARGE USWATER IND: | Y |
| RECEIVING WATER NAME: | ocean |
| CERTIFIER NAME: | Talal Balaa |
| CERTIFIER TITLE: | Not reported |
| CERTIFICATION DATE: | 18-DEC-12 |
| PRIMARY SIC: | Not reported |
| SECONDARY SIC: | Not reported |
| TERTIARY SIC: | Not reported |
| | |
| Npdes Number: | CAS000002 |
| Facility Status: | Terminated |
| Agency Id: | 0 |
| Region: | 4 |
| Regulatory Measure Id: | 433373 |
| Order No: | 2009-0009-DWQ |
| Regulatory Measure Type: | Enrollee |
| Place Id: | Not reported |
| WDID: | 4 19C365329 |
| Program Type: | Construction |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | 01/02/2013 |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | 02/24/2014 |
| Discharge Name: | Los Angeles Unified School District |
| Discharge Address: | 333 S Beaudry Ave |
| Discharge City: | Los Angeles |
| Discharge State: | California |
| Discharge Zip: | 90017 |
| RECEIVED DATE: | Not reported |

**SOUTH REGION HIGH SCHOOL NO. 15 (Continued)** **S103652543**

| | |
|---|---|
| PROCESSED DATE: | Not reported |
| STATUS CODE NAME: | Not reported |
| STATUS DATE: | Not reported |
| PLACE SIZE: | Not reported |
| PLACE SIZE UNIT: | Not reported |
| FACILITY CONTACT NAME: | Not reported |
| FACILITY CONTACT TITLE: | Not reported |
| FACILITY CONTACT PHONE: | Not reported |
| FACILITY CONTACT PHONE EXT: | Not reported |
| FACILITY CONTACT EMAIL: | Not reported |
| OPERATOR NAME: | Not reported |
| OPERATOR ADDRESS: | Not reported |
| OPERATOR CITY: | Not reported |
| OPERATOR STATE: | Not reported |
| OPERATOR ZIP: | Not reported |
| OPERATOR CONTACT NAME: | Not reported |
| OPERATOR CONTACT TITLE: | Not reported |
| OPERATOR CONTACT PHONE: | Not reported |
| OPERATOR CONTACT PHONE EXT: | Not reported |
| OPERATOR CONTACT EMAIL: | Not reported |
| OPERATOR TYPE: | Not reported |
| DEVELOPER NAME: | Not reported |
| DEVELOPER ADDRESS: | Not reported |
| DEVELOPER CITY: | Not reported |
| DEVELOPER STATE: | Not reported |
| DEVELOPER ZIP: | Not reported |
| DEVELOPER CONTACT NAME: | Not reported |
| DEVELOPER CONTACT TITLE: | Not reported |
| CONSTYPE LINEAR UTILITY IND: | Not reported |
| EMERGENCY PHONE NO: | Not reported |
| EMERGENCY PHONE EXT: | Not reported |
| CONSTYPE ABOVE GROUND IND: | Not reported |
| CONSTYPE BELOW GROUND IND: | Not reported |
| CONSTYPE CABLE LINE IND: | Not reported |
| CONSTYPE COMM LINE IND: | Not reported |
| CONSTYPE COMMERTIAL IND: | Not reported |
| CONSTYPE ELECTRICAL LINE IND: | Not reported |
| CONSTYPE GAS LINE IND: | Not reported |
| CONSTYPE INDUSTRIAL IND: | Not reported |
| CONSTYPE OTHER DESRIPTION: | Not reported |
| CONSTYPE OTHER IND: | Not reported |
| CONSTYPE RECONS IND: | Not reported |
| CONSTYPE RESIDENTIAL IND: | Not reported |
| CONSTYPE TRANSPORT IND: | Not reported |
| CONSTYPE UTILITY DESCRIPTION: | Not reported |
| CONSTYPE UTILITY IND: | Not reported |
| CONSTYPE WATER SEWER IND: | Not reported |
| DIR DISCHARGE USWATER IND: | Not reported |
| RECEIVING WATER NAME: | Not reported |
| CERTIFIER NAME: | Not reported |
| CERTIFIER TITLE: | Not reported |
| CERTIFICATION DATE: | Not reported |
| PRIMARY SIC: | Not reported |
| SECONDARY SIC: | Not reported |
| TERTIARY SIC: | Not reported |

**37**
**WSW**
**1/2-1**
**0.914 mi.**
**4826 ft.**

**LA DIST OFF&STRG YD-RI**

**LOS ANGELES, CA**

**ENVIROSTOR** **S107736564**
**N/A**

**Relative:**
**Higher**

**Actual:**
**483 ft.**

ENVIROSTOR:

| | |
|---|---|
| Facility ID: | 80000288 |
| Status: | Inactive - Needs Evaluation |
| Status Date: | 07/01/2005 |
| Site Code: | Not reported |
| Site Type: | Military Evaluation |
| Site Type Detailed: | FUDS |
| Acres: | Not reported |
| NPL: | NO |
| Regulatory Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Program Manager: | Not reported |
| Supervisor: | Douglas Bautista |
| Division Branch: | Cleanup Cypress |
| Assembly: | 70 |
| Senate: | 35 |
| Special Program: | Not reported |
| Restricted Use: | NO |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | DERA |
| Latitude: | 33.72611 |
| Longitude: | -118.3166 |
| APN: | NONE SPECIFIED |
| Past Use: | NONE SPECIFIED |
| Potential COC: | NONE SPECIFIED |
| Confirmed COC: | NONE SPECIFIED |
| Potential Description: | NONE SPECIFIED |
| Alias Name: | CA99799F548700 |
| Alias Type: | Federal Facility ID |
| Alias Name: | J09CA0428 |
| Alias Type: | INPR |
| Alias Name: | 80000288 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | Not reported |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Not reported |
| Completed Date: | Not reported |
| Comments: | Not reported |
| Future Area Name: | Not reported |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |
| Schedule Due Date: | Not reported |
| Schedule Revised Date: | Not reported |

**38**
**SE**
**1/2-1**
**0.919 mi.**
**4853 ft.**

**FORT MACARTHUR LOWER & MIDDLE RES**
**2901 ARTHUR MACARTHUR RD**
**SAN PEDRO, CA 90731**

**RESPONSE** **S107736347**
**ENVIROSTOR** **N/A**

**Relative:**
**Lower**

**Actual:**
**69 ft.**

RESPONSE:

| | |
|---|---|
| Facility ID: | 80001050 |
| Site Type: | State Response |
| Site Type Detail: | FUDS |
| Acres: | 134 |
| National Priorities List: | NO |
| Cleanup Oversight Agencies: | SMBRP |
| Lead Agency Description: | DTSC - Site Cleanup Program |
| Project Manager: | Daniel Cordero |
| Supervisor: | Douglas Bautista |
| Division Branch: | Cleanup Cypress |
| Site Code: | Not reported |
| Site Mgmt. Req.: | NONE SPECIFIED |
| Assembly: | 70 |
| Senate: | 35 |
| Special Program Status: | Not reported |
| Status: | Inactive - Action Required |
| Status Date: | 11/16/2010 |
| Restricted Use: | NO |
| Funding: | DERA |
| Latitude: | 33.72083 |
| Longitude: | -118.3125 |
| APN: | NONE SPECIFIED |
| Past Use: | FIRING RANGE - ARTILLERY, FUEL - VEHICLE STORAGE/ REFUELING, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, PORT, UNKNOWN, VEHICLE MAINTENANCE |
| Potential COC : | Explosives (UXO, MEC Munitions Debris (MD TPH-diesel TPH-gas TPH-MOTOR OIL |
| Confirmed COC: | 30011-NO 32000-NO 30024-NO 30025-NO 3002502-NO |
| Potential Description: | SOIL, SOIL |
| Alias Name: | FORT MAC ARTHUR |
| Alias Type: | Alternate Name |
| Alias Name: | CA99799F994000 |
| Alias Type: | Federal Facility ID |
| Alias Name: | 110033614729 |
| Alias Type: | EPA (FRS #) |
| Alias Name: | J09CA7118 |
| Alias Type: | INPR |
| Alias Name: | 80001050 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | *Site Inspection (SI) Workplan |
| Completed Date: | 12/06/2006 |
| Comments: | Only general comments made, but no response was necessary. DTSC concurred. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | *Site Inspection (SI) Report |
| Completed Date: | 06/15/2007 |
| Comments: | DTSC concurred with the NDAI designation for two Munitions Response |

**FORT MACARTHUR LOWER & MIDDLE RES (Continued)** **S107736347**

Sites and recommended the former tank farm for HTRW designation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 07/31/2006
Comments: Comments were provided at the Draft phase and a meeting was held to discuss the document. So the document is finalized after submittal of comments on the draft document. If all DTSC comments are incorporated, then the document is considered final when the revised version arrives at DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inventory Project Report (INPR)
Completed Date: 03/30/1999
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 80001050
Status: Inactive - Action Required
Status Date: 11/16/2010
Site Code: Not reported
Site Type: State Response
Site Type Detailed: FUDS
Acres: 134
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Daniel Cordero
Supervisor: Douglas Bautista
Division Branch: Cleanup Cypress
Assembly: 70
Senate: 35
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 33.72083
Longitude: -118.3125
APN: NONE SPECIFIED
Past Use: FIRING RANGE - ARTILLERY, FUEL - VEHICLE STORAGE/ REFUELING, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, PORT, UNKNOWN, VEHICLE MAINTENANCE
Potential COC: Explosives (UXO, MEC Munitions Debris (MD Explosives (UXO, MEC Munitions Debris (MD TPH-diesel TPH-gas TPH-MOTOR OIL
Confirmed COC: 30011-NO 32000-NO 30011-NO 30024-NO 30025-NO 3002502-NO 32000-NO

**FORT MACARTHUR LOWER & MIDDLE RES (Continued)** **S107736347**

Potential Description: SOIL, SOIL
Alias Name: FORT MAC ARTHUR
Alias Type: Alternate Name
Alias Name: CA99799F994000
Alias Type: Federal Facility ID
Alias Name: 110033614729
Alias Type: EPA (FRS #)
Alias Name: J09CA7118
Alias Type: INPR
Alias Name: 80001050
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Site Inspection (SI) Workplan
Completed Date: 12/06/2006
Comments: Only general comments made, but no response was necessary. DTSC concurred.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Site Inspection (SI) Report
Completed Date: 06/15/2007
Comments: DTSC concurred with the NDAI designation for two Munitions Response Sites and recommended the former tank farm for HTRW designation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 07/31/2006
Comments: Comments were provided at the Draft phase and a meeting was held to discuss the document. So the document is finalized after submittal of comments on the draft document. If all DTSC comments are incorporated, then the document is considered final when the revised version arrives at DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inventory Project Report (INPR)
Completed Date: 03/30/1999
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Count: 4 records.

ORPHAN SUMMARY

| City | EDR ID | Site Name | Site Address | Zip | Database(s) |
|---|---|---|---|---|---|
| SAN PEDRO | S117710023 | SAN PEDRO AREA ALLEY PROJ | 2 2ND ST FROM BANDINI ST TO ME | | NPDES |
| SAN PEDRO | S101480978 | H-10 WATER TAXI COMPANY | BERTH 87,LOS ANGELES HARBOR MA | 90731 | ENVIROSTOR |
| SAN PEDRO | 1003878475 | LOS ANGELES HARBOR BERTH 115 | HARBOR BLVD | 90732 | SEMS-ARCHIVE, ENVIROSTOR |
| SAN PEDRO | S105628551 | 15TH STREET ELEMENTARY SCHOOL ADDI | PACIFIC AVENUE/WEST 16TH STREE | 90731 | ENVIROSTOR, SCH |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

**STANDARD ENVIRONMENTAL RECORDS**

***Federal NPL site list***

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/30/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: EPA
Telephone: N/A
Last EDR Contact: 01/26/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/30/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: EPA
Telephone: N/A
Last EDR Contact: 01/26/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

***Federal Delisted NPL site list***

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/30/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: EPA
Telephone: N/A
Last EDR Contact: 01/26/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

***Federal CERCLIS list***

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 03/26/2015
Date Data Arrived at EDR: 04/08/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/06/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/11/2016
Date Data Arrived at EDR: 01/22/2016
Date Made Active in Reports: 03/18/2016
Number of Days to Update: 56

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 01/11/2016
Date Data Arrived at EDR: 01/22/2016
Date Made Active in Reports: 03/18/2016
Number of Days to Update: 56

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

***Federal RCRA generators list***

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

***Federal institutional controls / engineering controls registries***

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 13

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/16/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

***Federal ERNS list***

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/22/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Annually

***State- and tribal - equivalent NPL***

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/03/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/03/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Quarterly

***State- and tribal - equivalent CERCLIS***

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/03/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/03/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Quarterly

***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/15/2016
Date Data Arrived at EDR: 02/17/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 44

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/17/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Quarterly

***State and tribal leaking storage tank lists***

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 12/14/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 56

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Quarterly

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/08/2015
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/27/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 118

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/28/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 55

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 08/20/2015
Date Data Arrived at EDR: 10/30/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 111

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/24/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 34

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/04/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

SLIC: Statewide SLIC Cases

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 12/14/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 56

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

***State and tribal registered storage tank lists***

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 12/14/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 56
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 08/01/2009
Date Data Arrived at EDR: 09/10/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 21
Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/11/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 12/14/2014
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 28
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/27/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/13/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 118
Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 08/20/2015
Date Data Arrived at EDR: 10/30/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 111
Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 11/24/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 34

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

***State and tribal voluntary cleanup sites***

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/03/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/03/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 04/01/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

***State and tribal Brownfields sites***

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 12/04/2015
Date Data Arrived at EDR: 12/08/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 44

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/07/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Brownfield lists***

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/22/2015
Date Data Arrived at EDR: 12/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/22/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Semi-Annually

***Local Lists of Landfill / Solid Waste Disposal Sites***

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 12/17/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 53

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 11/23/2015
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 58

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/14/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 09/17/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 76

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/01/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/03/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/03/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 09/30/2015
Date Data Arrived at EDR: 01/19/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 63

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 01/11/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/17/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 76

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/01/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Quarterly

***Local Lists of Registered Storage Tanks***

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 11/25/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 16

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 03/28/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database
The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

***Local Land Records***

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 12/17/2015
Date Data Arrived at EDR: 12/22/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/07/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 03/11/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 12/07/2015
Date Data Arrived at EDR: 12/08/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 44

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 03/08/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Semi-Annually

***Records of Emergency Release Reports***

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/24/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 68

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/16/2015
Date Data Arrived at EDR: 01/27/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 55

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/27/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 12/14/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 56

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 12/14/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 56

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

***Other Ascertainable Records***

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/11/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/01/2015
Date Data Arrived at EDR: 09/03/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/16/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/09/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/12/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/24/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 110

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/24/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/08/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2015
Date Data Arrived at EDR: 08/26/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 02/12/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 33
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/12/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31
Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/26/2015
Date Data Arrived at EDR: 07/10/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 95
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 01/13/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/11/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/29/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/07/2015
Date Data Arrived at EDR: 07/09/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 69
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/07/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/03/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 46

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/24/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/26/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 11/23/2015
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 86

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 03/28/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 01/26/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/24/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/24/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2015
Date Data Arrived at EDR: 09/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 125

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/02/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/04/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/04/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/20/2015
Date Data Arrived at EDR: 09/09/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 55

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 03/08/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/28/2015
Date Data Arrived at EDR: 12/29/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 23

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 02/08/2016
Date Data Arrived at EDR: 02/24/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 37

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 02/05/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 09/25/2015
Date Made Active in Reports: 11/05/2015
Number of Days to Update: 41

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/22/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 01/26/2016
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 53

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 01/28/2016
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/17/2016
Date Data Arrived at EDR: 02/23/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 38

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/16/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 10/14/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 58

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/11/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Annually

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/22/2016
Date Data Arrived at EDR: 02/24/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 37
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/24/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database
A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 01/11/2016
Date Data Arrived at EDR: 01/13/2016
Date Made Active in Reports: 02/22/2016
Number of Days to Update: 40
Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/13/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 12/17/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 53
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Varies

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 11/10/2015
Date Data Arrived at EDR: 12/08/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 44
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/08/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 02/16/2016
Date Data Arrived at EDR: 02/17/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 44
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/17/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 12/07/2015
Date Data Arrived at EDR: 12/08/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 44
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 03/08/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 12/17/2015
Date Made Active in Reports: 03/01/2016
Number of Days to Update: 75
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 01/05/2016
Date Made Active in Reports: 02/12/2016
Number of Days to Update: 38
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 04/04/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 07/23/2015
Date Data Arrived at EDR: 09/15/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 28
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water board?s review found that more than one-third of the region?s active disposal pits are operating without permission.

Date of Government Version: 04/15/2015
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/23/2015
Number of Days to Update: 67
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 06/16/2016
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/28/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/20/2015
Date Data Arrived at EDR: 09/23/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 103

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 03/23/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/23/2015
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 86

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/24/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

**EDR RECOVERED GOVERNMENT ARCHIVES**

***Exclusive Recovered Govt. Archives***

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

**COUNTY RECORDS**

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/11/2016
Date Data Arrived at EDR: 01/12/2016
Date Made Active in Reports: 02/22/2016
Number of Days to Update: 41

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/11/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/11/2016
Date Data Arrived at EDR: 01/14/2016
Date Made Active in Reports: 03/01/2016
Number of Days to Update: 47

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/11/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List
Cupa Facility List

Date of Government Version: 11/16/2015
Date Data Arrived at EDR: 12/10/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 42

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 03/21/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing
Cupa facility list.

Date of Government Version: 02/19/2016
Date Data Arrived at EDR: 02/23/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 38

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 02/02/2016
Date Data Arrived at EDR: 02/04/2016
Date Made Active in Reports: 02/22/2016
Number of Days to Update: 18

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/28/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 02/22/2016
Date Data Arrived at EDR: 02/24/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 37

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 02/24/2016
Date Data Arrived at EDR: 02/26/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 35

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 01/22/2016
Date Data Arrived at EDR: 02/05/2016
Date Made Active in Reports: 03/07/2016
Number of Days to Update: 31

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/22/2016
Date Data Arrived at EDR: 02/24/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 37

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 01/05/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/22/2016
Number of Days to Update: 45

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 04/04/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 12/02/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 48

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 01/25/2016
Date Data Arrived at EDR: 01/27/2016
Date Made Active in Reports: 02/22/2016
Number of Days to Update: 26

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 33

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 05/19/2015
Date Data Arrived at EDR: 06/18/2015
Date Made Active in Reports: 07/22/2015
Number of Days to Update: 34

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 02/23/2016
Date Data Arrived at EDR: 02/25/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 36

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 02/09/2016
Date Data Arrived at EDR: 02/12/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 49

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/19/2016
Next Scheduled EDR Contact: 05/02/2016
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 03/21/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/24/2014
Date Data Arrived at EDR: 01/30/2015
Date Made Active in Reports: 03/04/2015
Number of Days to Update: 33
Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/19/2016
Date Data Arrived at EDR: 01/20/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 62
Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/20/2016
Next Scheduled EDR Contact: 05/02/2016
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 56
Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/19/2016
Next Scheduled EDR Contact: 05/02/2016
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/15/2015
Date Data Arrived at EDR: 01/29/2015
Date Made Active in Reports: 03/10/2015
Number of Days to Update: 40
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 03/28/2016
Next Scheduled EDR Contact: 05/02/2016
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/02/2015
Date Made Active in Reports: 04/13/2015
Number of Days to Update: 11
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 02/16/2016
Next Scheduled EDR Contact: 05/02/2016
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 11/04/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 34
Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/12/2016
Date Data Arrived at EDR: 01/15/2016
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 24
Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/11/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/11/2015
Date Data Arrived at EDR: 12/14/2015
Date Made Active in Reports: 03/07/2016
Number of Days to Update: 84

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 10/05/2015
Date Data Arrived at EDR: 10/08/2015
Date Made Active in Reports: 10/15/2015
Number of Days to Update: 7

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 04/04/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 12/18/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 34

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List

CUPA Facility List

Date of Government Version: 11/24/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 51

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 12/10/2015
Date Data Arrived at EDR: 12/14/2015
Date Made Active in Reports: 02/12/2016
Number of Days to Update: 60

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 01/27/2016
Date Data Arrived at EDR: 02/04/2016
Date Made Active in Reports: 02/22/2016
Number of Days to Update: 18

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/12/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 49

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/09/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/12/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 49

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/09/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/10/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 51

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/10/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

PLACER COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 12/11/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 41

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 03/07/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 01/20/2016
Date Data Arrived at EDR: 01/22/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 60

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/21/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/20/2016
Date Data Arrived at EDR: 01/22/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 60

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/21/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/02/2015
Date Data Arrived at EDR: 01/05/2016
Date Made Active in Reports: 02/12/2016
Number of Days to Update: 38

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/05/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/02/2015
Date Data Arrived at EDR: 01/05/2016
Date Made Active in Reports: 02/12/2016
Number of Days to Update: 38

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/05/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 12/18/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 52

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/23/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 10/17/2013
Number of Days to Update: 23

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/07/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 03/03/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 12/18/2015
Date Data Arrived at EDR: 12/22/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 48

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 04/04/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/22/2016
Date Data Arrived at EDR: 02/24/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 37

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/21/2016
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 10/14/2015
Date Data Arrived at EDR: 10/15/2015
Date Made Active in Reports: 11/16/2015
Number of Days to Update: 32

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/28/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 12/17/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 53

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/14/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 11/18/2015
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 17

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Annually

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 02/05/2016
Date Data Arrived at EDR: 02/10/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 51

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List

CUPA facility listing.

Date of Government Version: 11/18/2015
Date Data Arrived at EDR: 11/23/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 18

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 12/10/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 42

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 10/30/2015
Date Data Arrived at EDR: 12/14/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 56

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/14/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 10/30/2015
Date Data Arrived at EDR: 12/14/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 56

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/14/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 01/11/2016
Date Data Arrived at EDR: 01/14/2016
Date Made Active in Reports: 02/22/2016
Number of Days to Update: 39

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/28/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/05/2016
Date Data Arrived at EDR: 01/07/2016
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 32

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/28/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 12/07/2015
Date Data Arrived at EDR: 12/08/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 9

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 03/07/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 10/29/2015
Date Data Arrived at EDR: 10/30/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 42

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 03/04/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 12/28/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 53

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/04/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/14/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Quarterly

Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 12/28/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 53

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 11/30/2015
Date Data Arrived at EDR: 12/17/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 53

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/17/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/05/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 46

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 04/04/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/05/2016
Date Made Active in Reports: 02/22/2016
Number of Days to Update: 17

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

**OTHER DATABASE(S)**

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/18/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/17/2015
Date Made Active in Reports: 08/12/2015
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/03/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/03/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/24/2015
Date Made Active in Reports: 08/18/2015
Number of Days to Update: 25

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/19/2016
Next Scheduled EDR Contact: 05/02/2016
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 03/21/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/19/2015
Date Made Active in Reports: 04/07/2015
Number of Days to Update: 19

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/14/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

**STREET AND ADDRESS INFORMATION**

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# GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

**TARGET PROPERTY ADDRESS**

SAN PEDRO HIGH SCHOOL
1001 W 15TH STREET
SAN PEDRO, CA 90731

**TARGET PROPERTY COORDINATES**

| | |
|---|---|
| Latitude (North): | 33.73002 - 33° 43' 48.07'' |
| Longitude (West): | 118.298674 - 118° 17' 55.23'' |
| Universal Tranverse Mercator: | Zone 11 |
| UTM X (Meters): | 379685.5 |
| UTM Y (Meters): | 3732785.5 |
| Elevation: | 180 ft. above sea level |

**USGS TOPOGRAPHIC MAP**

| | |
|---|---|
| Target Property Map: | 5640434 SAN PEDRO, CA |
| Version Date: | 2012 |

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**GROUNDWATER FLOW DIRECTION INFORMATION**

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

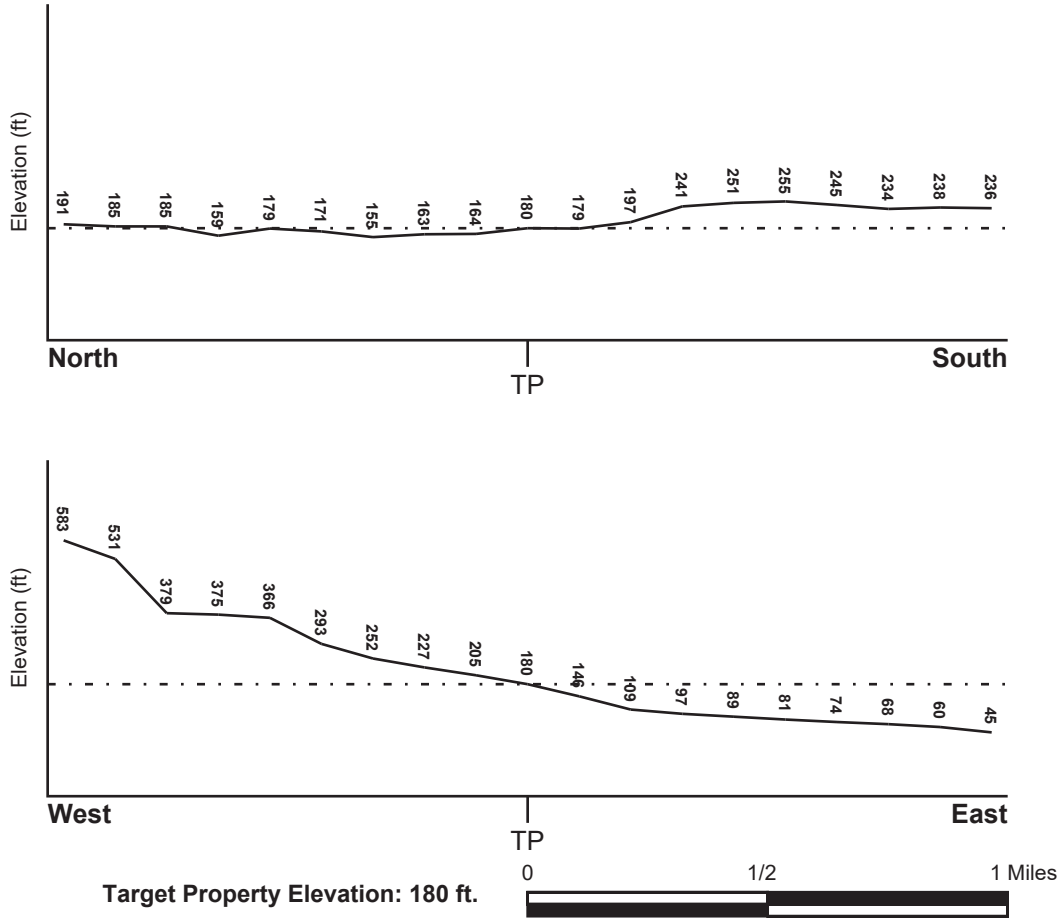
**TOPOGRAPHIC INFORMATION**

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

**TARGET PROPERTY TOPOGRAPHY**

General Topographic Gradient: General ENE

**SURROUNDING TOPOGRAPHY: ELEVATION PROFILES**




Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

### FEMA FLOOD ZONE

| Target Property County | FEMA Flood Electronic Data |
|---|---|
| LOS ANGELES, CA | YES - refer to the Overview Map and Detail Map |

Flood Plain Panel at Target Property: 06037C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

### NATIONAL WETLAND INVENTORY

| NWI Quad at Target Property | NWI Electronic Data Coverage |
|---|---|
| SAN PEDRO | YES - refer to the Overview Map and Detail Map |

## HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

***Site-Specific Hydrogeological Data*:***

| | |
|---|---|
| Search Radius: | 1.25 miles |
| Location Relative to TP: | 1/2 - 1 Mile East |
| Site Name: | Auto Body Shop |
| Site EPA ID Number: | CA0001159151 |
| Groundwater Flow Direction: | SE TOWARD THE PACIFIC OCEAN. |
| Measured Depth to Water: | approximately 15 to 16 feet. |
| Hydraulic Connection: | The site is underlain by four aquifers: the semi-perched; Gage; Lynwood; and the Silverado. The unconfined semi-perched and underlying Gage aquifers are separated by the Bellflower aquiclude. |
| Sole Source Aquifer: | No information about a sole source aquifer is available |
| Data Quality: | Information is inferred in the CERCLIS investigation report(s) |

## AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

| MAP ID | LOCATION FROM TP | GENERAL DIRECTION GROUNDWATER FLOW |
|---|---|---|
| Not Reported | | |

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

## GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

**ROCK STRATIGRAPHIC UNIT**

| | |
|---|---|
| Era: | Cenozoic |
| System: | Tertiary |
| Series: | Eocene |
| Code: | Te *(decoded above as Era, System & Series)* |

**GEOLOGIC AGE IDENTIFICATION**

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

**DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY**

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

| | |
|---|---|
| Soil Component Name: | CALLEGUAS |
| Soil Surface Texture: | clay loam |
| Hydrologic Group: | Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer. |
| Soil Drainage Class: | Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet. |

Hydric Status: Soil does not meet the requirements for a hydric soil.

| | |
|---|---|
| Corrosion Potential - Uncoated Steel: | HIGH |
| Depth to Bedrock Min: | > 8 inches |
| Depth to Bedrock Max: | > 20 inches |

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | | |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | Permeability Rate (in/hr) | Soil Reaction (pH) |
| 1 | 0 inches | 16 inches | clay loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay | Max: 2.00<br>Min: 0.60 | Max: 8.40<br>Min: 7.90 |
| 2 | 16 inches | 20 inches | weathered bedrock | Not reported | Not reported | Max: 0.00<br>Min: 0.00 | Max: 0.00<br>Min: 0.00 |

**OTHER SOIL TYPES IN AREA**

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: clay
gravelly - loam
stony - loam
loam

Surficial Soil Types: clay
gravelly - loam
stony - loam
loam

Shallow Soil Types: clay
silty clay loam

Deeper Soil Types: sandy clay loam
stratified

**LOCAL / REGIONAL WATER AGENCY RECORDS**

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

**WELL SEARCH DISTANCE INFORMATION**

| DATABASE | SEARCH DISTANCE (miles) |
|---|---|
| Federal USGS | 1.000 |
| Federal FRDS PWS | Nearest PWS within 0.001 miles |
| State Database | 1.000 |

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**FEDERAL USGS WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| No Wells Found | | |

**FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| No PWS System Found | | |

Note: PWS System location is not always the same as well location.

**STATE DATABASE WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| No Wells Found | | |

**OTHER STATE DATABASE INFORMATION**

**STATE OIL/GAS WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| 1 | CAOG11000204777 | 1/2 - 1 Mile SSW |

# PHYSICAL SETTING SOURCE MAP - 4583327.2s




- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

| | |
|---|---|
| SITE NAME: | San Pedro High School |
| ADDRESS: | 1001 W 15th Street<br>San Pedro CA 90731 |
| LAT/LONG: | 33.73002 / 118.298674 |
| CLIENT: | Clark Seif Clark, Inc. |
| CONTACT: | Natalia Guerra |
| INQUIRY #: | 4583327.2s |
| DATE: | April 05, 2016 3:38 pm |

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# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database | EDR ID Number

**1**
**SSW**
**1/2 - 1 Mile**

**OIL_GAS** | **CAOG11000204777**

| | | | |
|---|---|---|---|
| District nun: | 1 | Api number: | 03705590 |
| Blm well: | N | Redrill can: | Not Reported |
| Dryhole: | N | Well status: | I |
| Operator name: | Los Angeles Harbor Oil Dev. Co. | | |
| County name: | Los Angeles | Fieldname: | Any Field |
| Area name: | Any Area | Section: | 25 |
| Township: | 05S | Range: | 14W |
| Base meridian: | SB | Elevation: | Not Reported |
| Locationde: | Not Reported | | |
| Gissourcec: | hud | | |
| Comments: | Not Reported | | |
| Leasename: | Not Reported | Wellnumber: | 1 |
| Epawell: | N | Hydraulica: | N |
| Confidenti: | N | Spuddate: | Not Reported |
| Welldeptha: | 0 | | |
| Redrillfoo: | 0 | | |
| Abandonedd: | Not Reported | Completion: | Not Reported |
| Directiona: | Unknown | Gissymbol: | PDH |
| Site id: | CAOG11000204777 | | |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
# RADON

**AREA RADON INFORMATION**

State Database: CA Radon

Radon Test Results

| Zipcode | Num Tests | > 4 pCi/L |
|---|---|---|
| 90731 | 51 | 5 |

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

---

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

| Area | Average Activity | % <4 pCi/L | % 4-20 pCi/L | % >20 pCi/L |
|---|---|---|---|---|
| Living Area - 1st Floor | 0.711 pCi/L | 98% | 2% | 0% |
| Living Area - 2nd Floor | Not Reported | Not Reported | Not Reported | Not Reported |
| Basement | 0.933 pCi/L | 100% | 0% | 0% |

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

## HYDROGEOLOGIC INFORMATION

AQUIFLOW$^{R}$ Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

## OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

**STREET AND ADDRESS INFORMATION**

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# APPENDIX F

# CITY DIRECTORY ABSTRACT

**San Pedro High School**
1001 W 15th Street
San Pedro, CA 90731

Inquiry Number: 4583327.5
April 05, 2016

# The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

# TABLE OF CONTENTS

## SECTION

**Executive Summary**

**Findings**

**City Directory Images**

***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.

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# EXECUTIVE SUMMARY

## DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

## RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

| Year | Source | TP | Adjoining | Text Abstract | Source Image |
|---|---|---|---|---|---|
| 2013 | Cole Information Services | X | X | X | - |
| 2008 | Cole Information Services | X | X | X | - |
| 2006 | Haines Company | - | - | - | - |
| 2004 | Haines Company | - | - | - | - |
| 2003 | Haines & Company | - | - | - | - |
| 2001 | Haines & Company, Inc. | - | X | X | - |
| 2000 | Haines | - | - | - | - |
| 1999 | Haines Company | - | - | - | - |
| 1996 | GTE | - | - | - | - |
| 1995 | Pacific Bell | X | X | X | - |
| 1992 | PACIFIC BELL WHITE PAGES | - | - | - | - |
| 1991 | Pacific Bell | - | - | - | - |
| 1990 | Pacific Bell | X | X | X | - |
| 1986 | Pacific Bell | - | - | - | - |
| 1985 | Pacific Bell | X | X | X | - |
| 1981 | Pacific Telephone | - | - | - | - |
| 1980 | Pacific Telephone | - | X | X | - |
| 1976 | Pacific Telephone | - | X | X | - |
| 1975 | Pacific Telephone | - | X | X | - |
| 1972 | R. L. Polk & Co. | - | - | - | - |
| 1971 | R. L. Polk & Co. | - | - | - | - |
| 1970 | Pacific Telephone | X | X | X | - |
| 1969 | Pacific Telephone | - | - | - | - |
| 1967 | Pacific Telephone | - | X | X | - |
| 1966 | Pacific Telephone | - | - | - | - |

# EXECUTIVE SUMMARY

| Year | Source | TP | Adjoining | Text Abstract | Source Image |
|---|---|---|---|---|---|
| 1965 | GTE | - | - | - | - |
| 1964 | Pacific Telephone | X | X | X | - |
| 1963 | Pacific Telephone | - | - | - | - |
| 1962 | Pacific Telephone | - | - | - | - |
| 1961 | R. L. Polk & Co. | - | - | - | - |
| 1960 | Pacific Telephone | X | X | X | - |
| | Pacific Telephone and Telegraph Company | X | X | X | - |
| 1958 | Pacific Telephone | - | X | X | - |
| 1957 | Pacific Telephone | X | X | X | - |
| 1956 | Pacific Telephone | - | - | - | - |
| 1955 | R. L. Polk & Co. | - | - | - | - |
| 1954 | R. L. Polk & Co. | X | X | X | - |
| 1952 | Los Angeles Directory Co. | - | - | - | - |
| 1951 | Los Angeles Directory Co. | - | - | - | - |
| 1950 | Pacific Telephone | X | X | X | - |
| 1949 | Los Angeles Directory Co. | - | - | - | - |
| 1948 | Associated Telephone Company, Ltd. | - | - | - | - |
| 1947 | Pacific Directory Co. | - | - | - | - |
| 1946 | Southern California Telephone Co | - | - | - | - |
| 1945 | R. L. Polk & Co. | - | - | - | - |
| 1944 | R. L. Polk & Co. | - | - | - | - |
| 1942 | Los Angeles Directory Co. | - | X | X | - |
| 1940 | Los Angeles Directory Co. | - | - | - | - |
| 1939 | Los Angeles Directory Co. | - | - | - | - |
| 1938 | Los Angeles Directory Company Publishers | - | - | - | - |
| 1937 | Los Angeles Directory Co. | - | X | X | - |
| 1936 | Los Angeles Directory Co. | - | - | - | - |
| 1935 | Los Angeles Directory Co. | - | X | X | - |
| 1934 | Los Angeles Directory Co. | - | - | - | - |
| 1933 | Los Angeles Directory Co. | - | X | X | - |
| 1932 | Los Angeles Directory Co. | - | - | - | - |
| 1931 | TRIBUNE-NEWS PUBLISHING CO. | - | - | - | - |
| 1930 | Los Angeles Directory Co. | - | - | - | - |
| 1929 | Los Angeles Directory Co. | - | X | X | - |
| 1928 | Los Angeles Directory Co. | - | - | - | - |
| 1927 | Los Angeles Directory Co. | - | - | - | - |
| 1926 | Los Angeles Directory Co. | - | - | - | - |
| 1925 | Los Angeles Directory Co. | - | - | - | - |
| 1924 | Los Angeles Directory Co. | - | X | X | - |
| 1923 | Los Angeles Directory Co. | - | - | - | - |
| 1921 | Los Angeles Directory Co. | - | - | - | - |

# EXECUTIVE SUMMARY

| Year | Source | TP | Adjoining | Text Abstract | Source Image |
|---|---|---|---|---|---|
| 1920 | Los Angeles Directory Co. | - | - | - | - |

# FINDINGS

## TARGET PROPERTY INFORMATION

### ADDRESS

1001 W 15th Street
San Pedro, CA 90731

### FINDINGS DETAIL

Target Property research detail.

### 15TH W

**1001 15TH W**

| Year | Uses | Source |
|---|---|---|
| 1995 | SAN PEDRO COMMUNITY ADULT SCHOOL | Pacific Bell |
| | SAN PEDRO HIGH SCHOOL | Pacific Bell |
| 1990 | SAN PEDRO COMMUNITY ADULT SCHOOL | Pacific Bell |
| | SAN PEDRO HIGH SCHOOL | Pacific Bell |

### W 15TH ST

**1001 W 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 2013 | SAN PEDRO HIGH SCHOOL | Cole Information Services |
| 2008 | JR ASJ ROTC PROGRAM AT SAN PEDRO | Cole Information Services |
| | JR ROTC PROGRAM AT SAN PEDRO HIGH SC | Cole Information Services |
| | LOS ANGELES UNIFID SCHOOL DST | Cole Information Services |
| 1985 | SAN PEDRO COMMUNITY ADULT SCHOOL | Pacific Bell |
| | SAN PEDRO HIGH SCHOOL | Pacific Bell |
| 1970 | SAN PEDRO COMMUNITY ADULT SCHOOL | Pacific Telephone |
| | SAN PEDRO HIGH SCHOOL | Pacific Telephone |
| 1964 | SAN PEDRO HIGH SCHOOL | Pacific Telephone |
| | SAN PEDRO HIGH SCHOOL ADULT EVENING SCHOOL | Pacific Telephone |
| 1960 | SAN PEDRO HIGH SCHOOL | Pacific Telephone |
| | SAN PEDRO HIGH SCHOOL ADULT EVENING SCHOOL | Pacific Telephone |
| 1957 | SAN PEDRO HIGH SCHOOL | Pacific Telephone |
| | SAN PEDRO ILGH SCHOOL ADULT EVENLNG SCHOOL | Pacific Telephone |
| 1954 | SAN PEDRO HIGH SCHOOL | R. L. Polk & Co. |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1954 | SAN PEDRO HIGH SCHOOL ADULT EVENING SCHOOL | R. L. Polk & Co. |
| 1950 | SAN PEDRO HIGH SCHOOL | Pacific Telephone |

# FINDINGS

## ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

### 13TH

**1014 13TH**

| Year | Uses | Source |
|---|---|---|
| 1995 | GOYNE IVY L | Pacific Bell |
| 1990 | GOYNE IVY L | Pacific Bell |

**1020 13TH**

| Year | Uses | Source |
|---|---|---|
| 1995 | 1 DENHAM MILADA | Pacific Bell |
| 1990 | 1 DENHAM MILADA | Pacific Bell |

**1035 13TH**

| Year | Uses | Source |
|---|---|---|
| 1990 | JURE FRANCIS | Pacific Bell |

**1043 13TH**

| Year | Uses | Source |
|---|---|---|
| 1995 | MELANO JAS | Pacific Bell |
| 1990 | MELANO JAS | Pacific Bell |

**1048 13TH**

| Year | Uses | Source |
|---|---|---|
| 1995 | 1 PATTERSON STEPHEN L | Pacific Bell |

**1049 13TH**

| Year | Uses | Source |
|---|---|---|
| 1995 | 2 BERGDAHL WM E | Pacific Bell |
| 1990 | 5 WIENEKE BARBARA | Pacific Bell |
| | 2 BERGDAHL WM E | Pacific Bell |

### 13TH ST

**967 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | DI MEGLIO C | Pacific Bell |
| 1980 | DI MEGLIO C | Pacific Telephone |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1957 | ANDRICH PETE | Pacific Telephone |
| 1954 | ANDRICH PETE | R. L. Polk & Co. |

**974 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 1980 | HENDERSON RON | Pacific Telephone |
| 1960 | ALLYN ALVIN | Pacific Telephone |
| 1957 | ALLYN ALVIN | Pacific Telephone |
| 1954 | VANDETTE J MRS R | R. L. Polk & Co. |

**1005 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | SYMONS W E MRS | Pacific Telephone |
| 1964 | SYMONS W E MRS | Pacific Telephone |
| 1960 | SYMONS W E MRS | Pacific Telephone |
| 1957 | SYIMOCO W BT MRS | Pacific Telephone |
| 1954 | EDGERLY E A R | R. L. Polk & Co. |
| 1950 | BRAJCICH J MRS R | Pacific Telephone |

**1010 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | GARCIA ANITA | Pacific Telephone |
| 1964 | GARCIA ANITA | Pacific Telephone |
| 1960 | GARCIA ROMAN | Pacific Telephone |
| 1957 | GARCIA ROMAN | Pacific Telephone |
| 1954 | GARCIA ROMAN | R. L. Polk & Co. |
| 1950 | ENGH LENA NOBO | Pacific Telephone |

**1014 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | STRICKER HAZEL | Pacific Bell |
| | GOYNE IVY L | Pacific Bell |
| 1980 | GOYNE IVY L | Pacific Telephone |
| 1975 | GOYNE IVY L | Pacific Telephone |
| 1970 | GOYNE IVY L | Pacific Telephone |
| 1964 | GOYNE IVY L | Pacific Telephone |
| 1960 | GOYNE IVY L | Pacific Telephone |
| 1957 | GOYNE IVY L | Pacific Telephone |
| 1954 | ROBERTS JAS F R | R. L. Polk & Co. |
| 1950 | ROBERTS JAS F R | Pacific Telephone |

# FINDINGS

**1015 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 1980 | LEE YOUNG JOAN | Pacific Telephone |
| 1975 | MILINA JNO B | Pacific Telephone |
| 1970 | MILINA JNO B | Pacific Telephone |
| 1960 | MILINA JNO B | Pacific Telephone |
| 1957 | MILINA JNOB | Pacific Telephone |
| 1954 | MILINA JIIO B R | R. L. Polk & Co. |
| 1950 | MILINA JNO BR | Pacific Telephone |
| 1929 | Jarvis EA Mrs r | Los Angeles Directory Co. |

**1018 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | BELL JESSIE B | Pacific Telephone |
| 1964 | BELL JESSIE B | Pacific Telephone |
| 1950 | CRUGER J HR | Pacific Telephone |
| 1935 | Cruger J H r | Los Angeles Directory Co. |

**1020 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | TAYLOR RANDY S | Pacific Bell |
| | SHANNON M K | Pacific Bell |
| | GWARTNEY M R | Pacific Bell |
| | TUREK R Z | Pacific Bell |
| 1980 | GWARTNEY M R | Pacific Telephone |
| | MCNEIL EVELYN B | Pacific Telephone |
| 1975 | ELLISON LAWSON K | Pacific Telephone |
| 1970 | STEINAUER JEROME | Pacific Telephone |
| | CHENG EDWIN | Pacific Telephone |
| | BUNDY PAUL E JR | Pacific Telephone |
| | AVELLONE JAS J | Pacific Telephone |
| 1960 | MAY BEATRICE | Pacific Telephone |
| 1957 | MAY BEATRICE | Pacific Telephone |
| 1954 | MAY BEATRICE R | R. L. Polk & Co. |
| 1950 | MAY BEATRICE R | Pacific Telephone |

**1021 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | DETTER B A | Pacific Telephone |
| 1964 | DETTER W H MRS | Pacific Telephone |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1960 | DETTER W H MRS | Pacific Telephone |
| 1957 | DETTER W H | Pacific Telephone |
| 1954 | DETTERW H | R. L. Polk & Co. |
| 1950 | DETTER W H R | Pacific Telephone |

**1027 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | SHORT WM A | Pacific Telephone |
| 1964 | SHORT WM A | Pacific Telephone |
| 1960 | SHORT WM A | Pacific Telephone |
| 1957 | SHORT WEM A | Pacific Telephone |
| 1954 | GRANDY MERTON1L R | R. L. Polk & Co. |
| 1950 | GRANDY MERTON L R | Pacific Telephone |

**1034 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | STEWART E | Pacific Bell |
| 1970 | STEWART JOHN | Pacific Telephone |
| 1964 | STEWART JOHN | Pacific Telephone |
| 1960 | STEWART JOHN | Pacific Telephone |
| 1957 | STEWART JOHN | Pacific Telephone |
| 1954 | STEWART JOHN R | R. L. Polk & Co. |
| 1950 | STEWART JOHN R | Pacific Telephone |

**1035 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | JURE FRANCIS | Pacific Bell |
| 1980 | JURE FRANCIS | Pacific Telephone |
| 1975 | JURE FRANCIS | Pacific Telephone |
| 1964 | JURE FRANCIS | Pacific Telephone |
| 1960 | JURE FRANCIS | Pacific Telephone |
| 1957 | NIEMCZURA BEN S | Pacific Telephone |
| 1954 | LANDIER BOB | R. L. Polk & Co. |
| 1950 | BULLOCK NELL INS | Pacific Telephone |

**1042 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | JURJEVICH JOHN | Pacific Telephone |
| 1964 | JURJEVICH JOHN | Pacific Telephone |
| 1960 | JURJEVICH B | Pacific Telephone |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1957 | RUDAN LUCY | Pacific Telephone |
| | JURJEVICH B | Pacific Telephone |
| 1954 | JURJEVICH B | R. L. Polk & Co. |
| 1950 | JURJEVICH B R | Pacific Telephone |

**1043 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | MELANO JAS | Pacific Bell |
| 1980 | MELANO JAS | Pacific Telephone |
| 1975 | MELANO JAS | Pacific Telephone |
| 1970 | MELANO JAS | Pacific Telephone |
| 1964 | MELANO JAS | Pacific Telephone |
| 1960 | MELANO JAS | Pacific Telephone |
| 1957 | MELANO JAS | Pacific Telephone |
| 1954 | GAMES R R | R. L. Polk & Co. |
| 1950 | GOMES R R | Pacific Telephone |

**1048 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 1964 | BOTICA IVAN | Pacific Telephone |
| 1960 | BOTICA IVAN | Pacific Telephone |
| 1957 | FELANDA VICA- TERTIN)L | Pacific Telephone |
| 1954 | FELANDO VINCE R | R. L. Polk & Co. |

**1049 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | BERGDAHL WM E | Pacific Bell |
| | ROKI DOMINIEK | Pacific Bell |
| | TANTON E | Pacific Bell |
| | WIENEKE BARBARA | Pacific Bell |
| 1980 | HAYASHI PAUL | Pacific Telephone |
| 1964 | BARBARICK JOS A | Pacific Telephone |
| 1960 | ANCICH MARIJON | Pacific Telephone |
| 1957 | BARRATT ALFRED A | Pacific Telephone |
| 1954 | BARRATT ALFRED A | R. L. Polk & Co. |
| 1950 | MEZICH JENEYR | Pacific Telephone |

**1057 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | LO GRASSO SALVATORE | Pacific Bell |

| Year | Uses | Source |
|---|---|---|
| 1975 | LO GRASSO SALVATORE | Pacific Telephone |
| 1970 | LOGRASSO SALVATORE | Pacific Telephone |
| 1964 | CVITANICH JOHN | Pacific Telephone |
| 1960 | CVITANICH JOHN | Pacific Telephone |
| 1957 | KUCURA TOM | Pacific Telephone |
| 1954 | KUCURA TOM | R. L. Polk & Co. |

**1073 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | DI MEGLIO LOUIE | Pacific Bell |
| | DRAGICH JOE P | Pacific Bell |
| 1980 | DRAGICH JOE P | Pacific Telephone |
| | CALLAHAN DENNIS D | Pacific Telephone |
| 1975 | DRAGICH JOE P | Pacific Telephone |
| 1970 | RANDAZZO LOUIS J | Pacific Telephone |
| | PERKOVIC MARIJAN | Pacific Telephone |
| | HALL JACK H | Pacific Telephone |
| | DRAGICH JOE P | Pacific Telephone |

## 14TH W

**934 14TH W**

| Year | Uses | Source |
|---|---|---|
| 1995 | LA FARGA VINCENT A | Pacific Bell |
| 1990 | LA FARGA VINCENT A | Pacific Bell |

**942 14TH W**

| Year | Uses | Source |
|---|---|---|
| 1990 | BRIGNAC JOHN P | Pacific Bell |

**972 14TH W**

| Year | Uses | Source |
|---|---|---|
| 1995 | 2 KOENKE ROBERT E | Pacific Bell |
| 1990 | 5 MOBAREZ AL | Pacific Bell |
| | 3 WILDER LARRY | Pacific Bell |

**1021 14TH W**

| Year | Uses | Source |
|---|---|---|
| 1995 | 1 BALTA PIERRE | Pacific Bell |
| 1990 | 4 BURWELL DAVID | Pacific Bell |

# FINDINGS

**1022 14TH W**

| Year | Uses | Source |
|---|---|---|
| 1995 | KILPATRICK K AND SILVIA | Pacific Bell |

**1026 14TH W**

| Year | Uses | Source |
|---|---|---|
| 1995 | MATTERA PASQUALE | Pacific Bell |
| 1990 | MATTERA PASQUALE | Pacific Bell |

**1027 14TH W**

| Year | Uses | Source |
|---|---|---|
| 1995 | PULISELICH MICHAEL | Pacific Bell |
| 1990 | PULISELICH MICHAEL | Pacific Bell |

**1035 14TH W**

| Year | Uses | Source |
|---|---|---|
| 1995 | BOGDANICH M | Pacific Bell |
| 1990 | BOGDANICH M | Pacific Bell |

**1042 14TH W**

| Year | Uses | Source |
|---|---|---|
| 1995 | WEITLAUF J | Pacific Bell |
| 1990 | WEITLAUF J | Pacific Bell |

**1043 14TH W**

| Year | Uses | Source |
|---|---|---|
| 1995 | BURICH J M | Pacific Bell |
| 1990 | BURICH J M | Pacific Bell |

**1048 14TH W**

| Year | Uses | Source |
|---|---|---|
| 1995 | MIRKOVICH MARIO JR | Pacific Bell |
| 1990 | MIRKOVICH MARIO JR | Pacific Bell |

**1056 14TH W**

| Year | Uses | Source |
|---|---|---|
| 1995 | VAN TRESS J W | Pacific Bell |
| 1990 | VAN TRESS J W | Pacific Bell |

**1057 14TH W**

| Year | Uses | Source |
|---|---|---|
| 1995 | 3 WATTS WILLIAM | Pacific Bell |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1995 | 1 STANLEY M A | Pacific Bell |
| | 4 DE JESUS ARMANDO & SANDRA | Pacific Bell |
| 1990 | 3 WATTS WILLIAM | Pacific Bell |

**1064 14TH W**

| Year | Uses | Source |
|---|---|---|
| 1995 | LORETTO C A | Pacific Bell |
| 1990 | ESTES CHRISTINA | Pacific Bell |

**1065 14TH W**

| Year | Uses | Source |
|---|---|---|
| 1990 | ASA FRANK | Pacific Bell |

**1095 14TH W**

| Year | Uses | Source |
|---|---|---|
| 1990 | CLEVELAND ROBERT S | Pacific Bell |

**1034 1/2 14TH W**

| Year | Uses | Source |
|---|---|---|
| 1995 | NISKA HENRY E | Pacific Bell |
| 1990 | NISKA HENRY E | Pacific Bell |

## 14TH ST

**948 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1950 | BANICH JOS SR R | Pacific Telephone |

**949 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1964 | MATULICH JULIUS J | Pacific Telephone |

**957 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | CAR JOHNNY | Pacific Telephone |
| 1957 | CAR JOHNNY | Pacific Telephone |

# FINDINGS

## 15TH W

**1028 15TH W**

| Year | Uses | Source |
|---|---|---|
| 1990 | LAMB J G | Pacific Bell |

**1030 15TH W**

| Year | Uses | Source |
|---|---|---|
| 1990 | LANDACRE DELLA | Pacific Bell |

**1056 15TH W**

| Year | Uses | Source |
|---|---|---|
| 1995 | 3 IYASERE ISRAEL | Pacific Bell |
| 1990 | 3 ESENE M | Pacific Bell |

**1082 15TH W**

| Year | Uses | Source |
|---|---|---|
| 1990 | HEARD JACK | Pacific Bell |

## 15TH ST

**1008 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 1976 | Glover Elner | Pacific Telephone |

**1045 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 1964 | PETRICH ROBT | Pacific Telephone |

**1088 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | TORQUATO FRANK | Pacific Telephone |

## 17TH

**951 17TH**

| Year | Uses | Source |
|---|---|---|
| 1995 | ZANKICH PAUL | Pacific Bell |
| 1990 | ZANKICH PAUL | Pacific Bell |

# FINDINGS

**975 17TH**

| Year | Uses | Source |
|---|---|---|
| 1995 | BACICH PETAR | Pacific Bell |
| 1990 | BACICH PETAR | Pacific Bell |

**977 17TH**

| Year | Uses | Source |
|---|---|---|
| 1995 | RAIKOVICH G | Pacific Bell |
| 1990 | RAIKOVICH G | Pacific Bell |

**1007 17TH**

| Year | Uses | Source |
|---|---|---|
| 1995 | SMITH WILBURN DR & ELIZABETH | Pacific Bell |
| 1990 | WISE E W | Pacific Bell |

**1009 17TH**

| Year | Uses | Source |
|---|---|---|
| 1990 | LAVERY JAMES J | Pacific Bell |

**1021 17TH**

| Year | Uses | Source |
|---|---|---|
| 1995 | MIRABITO TAMI | Pacific Bell |

**1025 17TH**

| Year | Uses | Source |
|---|---|---|
| 1990 | MORAE R & M | Pacific Bell |

**1035 17TH**

| Year | Uses | Source |
|---|---|---|
| 1995 | MOSICH JOHN | Pacific Bell |
| 1990 | MOSICH JOHN | Pacific Bell |

**1041 17TH**

| Year | Uses | Source |
|---|---|---|
| 1995 | FURIOLI DOROTHY | Pacific Bell |
| 1990 | FURIOLI DOROTHY | Pacific Bell |

**1055 17TH**

| Year | Uses | Source |
|---|---|---|
| 1995 | GRABERT FRED J | Pacific Bell |
| 1990 | GRABERT FRED J | Pacific Bell |

# FINDINGS

## 17TH ST

**946 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 1957 | YASUDA JIMMY | Pacific Telephone |
| 1954 | VASUDA JIMMY | R. L. Polk & Co. |

**951 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | ZANKICH PAUL | Pacific Bell |
| 1964 | ZANKICH PAUL | Pacific Telephone |
| 1960 | ZANKICH PAUL | Pacific Telephone |
| 1957 | ZANKICH PAUL | Pacific Telephone |
| 1954 | ZANKICH PAUL R | R. L. Polk & Co. |
| 1950 | ZANKICH PAULR | Pacific Telephone |

**952 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 1957 | MUNOZ ARTURO N | Pacific Telephone |
| 1954 | NISHINAKA MVASAMI | R. L. Polk & Co. |
| 1950 | AVILA NICKR | Pacific Telephone |

**953 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 1980 | LOWERY D | Pacific Telephone |
| 1975 | LOWERY D | Pacific Telephone |
| 1960 | TREON ROBT A | Pacific Telephone |
| 1950 | DENNI GWYNNE R | Pacific Telephone |

**956 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 1954 | SHIMIZU TORU R | R. L. Polk & Co. |

**958 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 1957 | CHRISTENSEN SUDIE B | Pacific Telephone |
| 1954 | CHRISTENSEN SUDIE B R | R. L. Polk & Co. |
| 1950 | CHRISTENSEN SUDIE B R | Pacific Telephone |

# FINDINGS

**964 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 1957 | YASUDA ISAMU | Pacific Telephone |
| 1954 | YASUDA ISAMU R | R. L. Polk & Co. |
| 1950 | YASUDA ISAMU R | Pacific Telephone |

**965 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 1980 | KAWABATA TODD & PEGGY | Pacific Telephone |
| 1975 | NAKAHARA ERIC | Pacific Telephone |
| 1970 | MORTON R A | Pacific Telephone |
| 1964 | MORTON R A | Pacific Telephone |
| 1960 | MORTON R A | Pacific Telephone |
| 1957 | MURTON R A MRS | Pacific Telephone |
| 1954 | MORTON R A MRS R | R. L. Polk & Co. |
| 1950 | MORTON R A MRSR | Pacific Telephone |

**971 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 1954 | KUSABA MASARU | R. L. Polk & Co. |

**972 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 1957 | WIDNER RICHARD P | Pacific Telephone |
| 1954 | KLMURA ROY | R. L. Polk & Co. |
| 1950 | HERNANDEZ JOHN P R | Pacific Telephone |

**973 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | DEBORN BILL & CARY | Pacific Bell |
| 1975 | KAWABATA TADASHI | Pacific Telephone |
| 1970 | KAWABATA TADASHI | Pacific Telephone |
| 1964 | KAWABATA TADASHI | Pacific Telephone |
| 1960 | KAWABATA TADASHI | Pacific Telephone |
| 1957 | KAWABATA TADASHI | Pacific Telephone |
| 1954 | KAWABATA TADASHI | R. L. Polk & Co. |
| 1950 | ASHCRAFT ROSER | Pacific Telephone |

**978 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 1957 | MURPHY SPUD | Pacific Telephone |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1954 | IDA K | R. L. Polk & Co. |
| 1950 | BRULEY GEO K R | Pacific Telephone |

**1003 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 1964 | BURNS MYRA | Pacific Telephone |

**1005 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 1980 | BISHER JOHN | Pacific Telephone |

**1009 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 1980 | NAPOLITANO ED | Pacific Telephone |

**1021 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | GAINEN GAIL | Pacific Telephone |
| | GATES GERI | Pacific Telephone |
| 1960 | THOMSEN MAX | Pacific Telephone |
| 1957 | THOMSEN MAX | Pacific Telephone |
| 1954 | THOMSEN MAX R | R. L. Polk & Co. |
| 1950 | THOMSEN MAX R | Pacific Telephone |

**1023 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | GANZERIA GREGORY | Pacific Bell |
| 1970 | CRACCHIOLO ALESSANDRO | Pacific Telephone |
| 1960 | BUSEKIST CHAS S | Pacific Telephone |
| 1957 | PHILLIPS RONNIE | Pacific Telephone |
| | PHILLIPS BUD | Pacific Telephone |
| 1950 | MICHAELS CHAS GR | Pacific Telephone |

**1025 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | MORA R & M | Pacific Bell |
| 1975 | CRACCHIOLO ANTONINO | Pacific Telephone |
| 1964 | DI LEO JOS | Pacific Telephone |
| 1954 | LE BLANC ROBT E | R. L. Polk & Co. |

# FINDINGS

**1028 17TH ST**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 1960 | LUEDER JOHN | Pacific Telephone |
| 1957 | LUEDER JOHN | Pacific Telephone |
| 1954 | LUEDER JOHN R | R. L. Polk & Co. |
| 1950 | LUEDER JOHN R | Pacific Telephone |

**1029 17TH ST**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 1985 | RITTNER KARL | Pacific Bell |
| 1970 | FIAMENGO GEO | Pacific Telephone |
| 1964 | FIAMENGO GEO | Pacific Telephone |
| 1960 | FIAMENGO GEO | Pacific Telephone |
| 1957 | FIAMENGO GEO | Pacific Telephone |
| 1954 | FIAMENGO GEO R | R. L. Polk & Co. |
| 1950 | FIAMENGO GEOR | Pacific Telephone |

**1035 17TH ST**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 1985 | MOSICH JOHN | Pacific Bell |
| 1980 | MOSICH JOHN | Pacific Telephone |
| 1975 | MOSICH JOHN | Pacific Telephone |
| 1970 | MOSICH JOHN | Pacific Telephone |
| 1964 | MOSICH JOHN | Pacific Telephone |
| 1960 | MOSICH JOHN | Pacific Telephone |
| 1957 | MLOSICH JOHN | Pacific Telephone |
| 1954 | MOSICH JOHN R | R. L. Polk & Co. |
| 1950 | MOSICH JOHNR | Pacific Telephone |

**1041 17TH ST**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 1985 | FURIOLI BERT | Pacific Bell |
| 1980 | FURIOLI BERT | Pacific Telephone |
| 1975 | FURIOLI BERT | Pacific Telephone |
| 1970 | FURLOLL BERT | Pacific Telephone |
| 1964 | FURIOLI BERT | Pacific Telephone |
| 1960 | FURIOLI BERT | Pacific Telephone |
| 1957 | FURNDII BERT | Pacific Telephone |
| 1954 | FUNOLI BERT R | R. L. Polk & Co. |
| 1950 | FURIONI BERT R | Pacific Telephone |

# FINDINGS

**1047 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 1980 | HURLEY SUZANNE R | Pacific Telephone |
| 1975 | HURLEY GEO | Pacific Telephone |
| 1970 | KRISTIANSEN NILS | Pacific Telephone |
| 1964 | VITALICH TONY | Pacific Telephone |
| 1960 | VITALICH TONY | Pacific Telephone |
| 1957 | VITALICH TONY | Pacific Telephone |
| 1954 | VITALICH TONY R | R. L. Polk & Co. |
| 1950 | VITALICH TONY R | Pacific Telephone |

**1054 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | PETERSON AMY | Pacific Telephone |
| 1957 | TREROTOLA F | Pacific Telephone |
| 1954 | TREROTOLA P | R. L. Polk & Co. |

## ALMA

**1312 ALMA**

| Year | Uses | Source |
|---|---|---|
| 1990 | MAURIN R C | Pacific Bell |

**1332 ALMA**

| Year | Uses | Source |
|---|---|---|
| 1990 | ROUPOLI LOUIS A | Pacific Bell |

**1340 ALMA**

| Year | Uses | Source |
|---|---|---|
| 1990 | TURNER ARTHUR S | Pacific Bell |

**1341 ALMA**

| Year | Uses | Source |
|---|---|---|
| 1990 | LONG M J | Pacific Bell |

**1419 ALMA**

| Year | Uses | Source |
|---|---|---|
| 1995 | FELANDO DAVID R JR | Pacific Bell |
| 1990 | SUNSHINE LEADED GLASS CO | Pacific Bell |
| | FELANDO DAVID R JR | Pacific Bell |

# FINDINGS

**1429 ALMA**

| Year | Uses | Source |
|---|---|---|
| 1995 | ESPEJO EUSEBLO H | Pacific Bell |
| | ESPEJO CHEY | Pacific Bell |
| 1990 | ESPEJO EUSEBIO H | Pacific Bell |
| | ESPEJO EUSEBIO H | Pacific Bell |
| | ESPEJO CHEY | Pacific Bell |

## ALMA ST

**1310 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | MOSES EDWARD | Pacific Bell |

**1311 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1954 | NAPALETON JENNIE R | R. L. Polk & Co. |
| 1950 | NAPALETON JENNIE R | Pacific Telephone |

**1312 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1964 | JOHNSON IRAS | Pacific Telephone |
| 1960 | JOHNSON IRAS | Pacific Telephone |
| 1957 | JOHNSON IRAN | Pacific Telephone |
| 1954 | JOHNSON IRAS R | R. L. Polk & Co. |
| 1950 | GREGG LUCY MRSR | Pacific Telephone |

**1313 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | NAPALETON ANTHONY MRS | Pacific Bell |
| 1980 | NAPALETON ANTHONY MRS | Pacific Telephone |
| 1975 | NAPALETON ANTHONY MRS | Pacific Telephone |
| 1970 | NAPALETON ANTHONY MRS | Pacific Telephone |
| 1964 | NAPALETON ANTHONY MRS | Pacific Telephone |
| 1960 | NAPALETON ANTHONY MRS | Pacific Telephone |
| 1957 | LAPALETON ANTHONY MVRS | Pacific Telephone |

**1314 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1975 | ALLEN FRANK W | Pacific Telephone |
| 1970 | FAWLE L M | Pacific Telephone |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1964 | FOWLE LAURA M | Pacific Telephone |
| 1960 | FOWLE LAURA M | Pacific Telephone |
| 1954 | RUSSELL LOIS L | R. L. Polk & Co. |
| 1950 | ZOROTOVICH ANTHONY R | Pacific Telephone |

**1316 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | QUINN ROY H | Pacific Telephone |
| 1964 | MATTERA JOHN | Pacific Telephone |
| 1960 | MATTERA JOHN | Pacific Telephone |
| 1957 | MATTERA JOHN | Pacific Telephone |
| 1954 | MATTERA JOHN | R. L. Polk & Co. |

**1318 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | COLELLO DAVID | Pacific Bell |
| 1980 | MATTERA JOE | Pacific Telephone |
| 1975 | BRYANT A E | Pacific Telephone |
| 1970 | DOBBINS JAS M | Pacific Telephone |
| 1960 | SAWYER MARY J | Pacific Telephone |
| | SAWYER JEROME L | Pacific Telephone |
| 1954 | WILKERSON JOHN B | R. L. Polk & Co. |

**1319 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1975 | CASSANO SALVATORE J | Pacific Telephone |
| | EASON ANTHONY V | Pacific Telephone |
| | GONZALEZ LOUIE | Pacific Telephone |
| 1970 | BARTZ WM B | Pacific Telephone |
| | KURASZ KENNETH F | Pacific Telephone |
| | MAIER RICHARD | Pacific Telephone |
| 1964 | CARR PETER S | Pacific Telephone |
| | LABOSSIERE UDOR S SR | Pacific Telephone |
| | MEZIN MAE | Pacific Telephone |
| 1960 | GALASSO JOHN A | Pacific Telephone |
| 1957 | LELEKOVICH ANDREW | Pacific Telephone |
| 1954 | LELEKOVICH ANDREW R | R. L. Polk & Co. |

# FINDINGS

**1322 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | SCHOEM MARK & ESTHER | Pacific Bell |
| 1975 | CLARK ALTHEA | Pacific Telephone |
| 1950 | MCCOWAN B R | Pacific Telephone |

**1323 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | VANDERMARK CHAS E MRS | Pacific Telephone |
| 1957 | VANDERMARK CHAS E MRS | Pacific Telephone |
| 1954 | STEIN JOHN C | R. L. Polk & Co. |

**1325 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1980 | DITCH JAS A | Pacific Telephone |
| 1970 | DELK WM E | Pacific Telephone |
| 1960 | FLYNN WAYNE D | Pacific Telephone |
| 1957 | ROSS LILY N | Pacific Telephone |
| 1954 | STEIN ELSIE MRS | R. L. Polk & Co. |
| 1950 | STEIN JOHN CR | Pacific Telephone |

**1332 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | ROUPOLI LOUIS A | Pacific Bell |
| 1970 | ROUPOLI LOUIS A | Pacific Telephone |
| 1964 | ROUPOLI LOUIS A | Pacific Telephone |
| 1960 | ROUPOLI LOUIS A | Pacific Telephone |
| 1957 | ROUPOLI LOUIS A | Pacific Telephone |
| 1954 | KALITERNA VINCENT JR R | R. L. Polk & Co. |
| 1950 | SACKS HARRYR | Pacific Telephone |

**1333 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | BETZ ROLAND | Pacific Telephone |
| 1964 | BETZ ROLAND | Pacific Telephone |
| 1960 | BETZ ROLAND | Pacific Telephone |
| 1957 | BETA ROLAND | Pacific Telephone |
| 1950 | LEBSACK FRED R | Pacific Telephone |

# FINDINGS

**1340 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | TURNER ARTHUR S | Pacific Bell |
| 1975 | BRETTELL JO A | Pacific Telephone |
| 1970 | BRETTELL JO A | Pacific Telephone |
| 1957 | SCHWARTZ B | Pacific Telephone |
| 1954 | SCHWARTZ B R | R. L. Polk & Co. |
| 1950 | SCHWARTZ B R | Pacific Telephone |

**1341 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1964 | WARD RUBY S | Pacific Telephone |
| 1960 | BARTHOLOMEW ROBT W | Pacific Telephone |
| 1957 | BARTHOLOMEW ROBT W | Pacific Telephone |
| 1954 | BARTHOLOMEW ROBT W | R. L. Polk & Co. |
| 1950 | FAIRHURST B R | Pacific Telephone |

**1405 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1964 | BECKMAN JOHN | Pacific Telephone |
| 1960 | GLADISH PAUL N | Pacific Telephone |
| 1957 | GLADLSH PAUL N | Pacific Telephone |
| 1954 | GLADISH PAUL N R | R. L. Polk & Co. |
| 1950 | GLADISH PAUL N R | Pacific Telephone |

**1411 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1975 | NEALON H L | Pacific Telephone |
| 1970 | NEALON H L | Pacific Telephone |
| 1964 | LUCE F H | Pacific Telephone |
| 1957 | LUCE F H | Pacific Telephone |
| 1954 | LUCE F H R | R. L. Polk & Co. |
| 1929 | Templo J H r | Los Angeles Directory Co. |

**1419 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | FELANDO DAVID R JR | Pacific Bell |
| | SUNSHINE LEADED GLASS CO | Pacific Bell |
| 1975 | FELANDO DAVID R JR | Pacific Telephone |
| 1970 | MORRISON BARBARA W | Pacific Telephone |
| 1964 | MORRISON BARBARA W | Pacific Telephone |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1960 | FALLS MELVIN H | Pacific Telephone |
| 1957 | FALLS MELVIN H | Pacific Telephone |
| 1954 | FALLS MELVIN H | R. L. Polk & Co. |
| 1950 | GADY JULIAN R | Pacific Telephone |

**1422 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | ACOSTA NELLIE | Pacific Telephone |
| 1957 | ADAMS BYRON E | Pacific Telephone |
| 1954 | SWITANOVICH ANTON HR | R. L. Polk & Co. |

**1424 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | SANDERSON HELEN | Pacific Telephone |
| 1957 | SANDERSON HELEN | Pacific Telephone |
| 1954 | PAGE JAS G R | R. L. Polk & Co. |
| 1950 | PAGE JAS G R | Pacific Telephone |

**1427 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1975 | DAVIS JACK MRS | Pacific Telephone |
| 1964 | SOTH LORENE T MRS | Pacific Telephone |
| 1960 | SOTH RICHARD E | Pacific Telephone |
| 1935 | Meobius Otto r | Los Angeles Directory Co. |

**1429 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | ESPEJO EUSEBIO H | Pacific Bell |
| | ESPEJO EUSEBIO H | Pacific Bell |
| 1975 | ESPEJO EUSEBJO H | Pacific Telephone |
| 1970 | TEPIC PERO | Pacific Telephone |
| 1960 | MCCLINTOCK NORMAN A | Pacific Telephone |
| 1950 | SYLVESTER M E EYE TRAINNG | Pacific Telephone |

**1435 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1980 | MCARDLE A ROBT | Pacific Telephone |
| 1975 | MCARDLE A ROBT | Pacific Telephone |
| 1970 | MAROVICH DOROTHY | Pacific Telephone |
| | MAROVICH PETE | Pacific Telephone |

| Year | Uses | Source |
|---|---|---|
| 1964 | MOORE GARY T | Pacific Telephone |
| 1960 | TEAL COURTNEY B | Pacific Telephone |
| 1957 | BRYANT QUINTEN S | Pacific Telephone |
| 1954 | BRYANT QUINTEN S | R. L. Polk & Co. |
| 1950 | BRYANTSTUART GR | Pacific Telephone |
| 1935 | Bllodgett Fred r | Los Angeles Directory Co. |
| 1929 | Coyle P H Mrs r | Los Angeles Directory Co. |

**1436 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1964 | MCGUIRE D W | Pacific Telephone |
| 1960 | MC GUIRE D W | Pacific Telephone |
| 1957 | MCGUIRE D W | Pacific Telephone |
| 1954 | MCGUIRE D W R | R. L. Polk & Co. |
| 1950 | MCGULRE D W R | Pacific Telephone |

**1706 ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1980 | KARMELICH A | Pacific Telephone |
| 1975 | KARMELICH A | Pacific Telephone |
| 1964 | TROY PETE | Pacific Telephone |

## E 13TH ST

**956 E 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 1935 | Adamson Wm Mrs r | Los Angeles Directory Co. |

**957 E 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 1935 | Solski Mona Puckett Piano School | Los Angeles Directory Co. |

## E 15TH ST

**1048 E 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 1935 | Sawyer Wilfred D r | Los Angeles Directory Co. |

# FINDINGS

## LELAND S

### 1403 LELAND S

| Year | Uses | Source |
|---|---|---|
| 1995 | 4 RODGERS LEE | Pacific Bell |
| 1990 | 5 SCHUCHMAN GERARD M | Pacific Bell |
| | 4 RODGERS LEE | Pacific Bell |
| | 1 DADDARIO LIDO | Pacific Bell |

### 1412 LELAND S

| Year | Uses | Source |
|---|---|---|
| 1995 | RODRIGUEZ A | Pacific Bell |

### 1414 LELAND S

| Year | Uses | Source |
|---|---|---|
| 1995 | MAKI M H | Pacific Bell |
| 1990 | MAKI REINO O | Pacific Bell |

### 1423 LELAND S

| Year | Uses | Source |
|---|---|---|
| 1990 | REYES RICARDO | Pacific Bell |

### 1425 LELAND S

| Year | Uses | Source |
|---|---|---|
| 1990 | DENTONE JOHN | Pacific Bell |

### 1431 LELAND S

| Year | Uses | Source |
|---|---|---|
| 1995 | 2 MCKEE CHRIS M | Pacific Bell |
| | 3 BOWMAN KAREN & STEVE | Pacific Bell |

### 1441 LELAND S

| Year | Uses | Source |
|---|---|---|
| 1995 | LOVITTO JOE | Pacific Bell |
| | LOVITTO JOE | Pacific Bell |
| 1990 | LOVITTO JOE | Pacific Bell |

### 1531 LELAND S

| Year | Uses | Source |
|---|---|---|
| 1995 | TRANI NICHOLAS N | Pacific Bell |
| 1990 | TRANI NICHOLAS N | Pacific Bell |

# FINDINGS

**1541 LELAND S**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 1995 | SKOMERZA JESS | Pacific Bell |
| 1990 | SKOMERZA JESS | Pacific Bell |

**1603 LELAND S**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 1990 | GIAMOS JAS | Pacific Bell |

## S ALMA

**1312 S ALMA**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 1937 | Boston Carl J firemn LAFD | Los Angeles Directory Co. |

**1341 S ALMA**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 1929 | Berglund John r | Los Angeles Directory Co. |

**1419 S ALMA**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 1935 | Maland H Capt r | Los Angeles Directory Co. |
| 1929 | Maland H Capt r | Los Angeles Directory Co. |

**1429 S ALMA**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 1929 | Seitz Margaret K r | Los Angeles Directory Co. |

## S ALMA AVE

**1310 S ALMA AVE**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | NUNEZRoy | Haines & Company, Inc. |

**1319 S ALMA AVE**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | BIZOUMISDimiltn | Haines & Company, Inc. |

**1322 S ALMA AVE**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | ERKOVICKem Ol | Haines & Company, Inc. |

# FINDINGS

**1323 S ALMA AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | CONIGLIAROTom | Haines & Company, Inc. |

**1332 S ALMA AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | MCALLISTER George | Haines & Company, Inc. |

**1340 S ALMA AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | PRECIADO Slave | Haines & Company, Inc. |

**1341 S ALMA AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | LONGMJ 310 B | Haines & Company, Inc. |

**1411 S ALMA AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |

**1419 S ALMA AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | FELANDODavrd RJr | Haines & Company, Inc. |

**1429 S ALMA AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | ESPEJOEusebio H | Haines & Company, Inc. |

**1435 S ALMA AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | RUSSOGovanno | Haines & Company, Inc. |

**1706 S ALMA AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |

**1708 S ALMA AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |

**1711 S ALMA AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | SMITH Rober | Haines & Company, Inc. |

# FINDINGS

## S ALMA ST

**1310 S ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1964 | ZOROTOVICH JOHN | Pacific Telephone |
| 1960 | ZOROTOVICH JOHN | Pacific Telephone |
| 1957 | ZOROTOVICH JOHN | Pacific Telephone |
| 1954 | ZOROTOVICH JOHN R | R. L. Polk & Co. |
| 1950 | ZOROTOVICH JOHN R | Pacific Telephone |

**1311 S ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1964 | GUTIERREZ LOUIS | Pacific Telephone |
| 1960 | GUTIERREZ LOUIS | Pacific Telephone |
| 1935 | Napolton Albert r | Los Angeles Directory Co. |

**1322 S ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 2008 | GRUZ INC | Cole Information Services |

**1405 S ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1935 | Rock F H r | Los Angeles Directory Co. |

**1704 S ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 2008 | ROBERT PAINTER | Cole Information Services |

**1705 S ALMA ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | BROOKS H J | Pacific Telephone |
| 1957 | BROOKS H J | Pacific Telephone |
| 1954 | BROOKS H J R | R. L. Polk & Co. |
| 1950 | BROOKS H J R | Pacific Telephone |
| 1935 | Brooks H J r | Los Angeles Directory Co. |

## S LELAND AVE

**1402 S LELAND AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |

# FINDINGS

**1403 S LELAND AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | R 60 GE 08 SLee | Haines & Company, Inc. |

**1412 S LELAND AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |

**1414 S LELAND AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | MAKIMH | Haines & Company, Inc. |

**1423 S LELAND AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | RICHJohn | Haines & Company, Inc. |

**1425 S LELAND AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | 9 EYESRasano | Haines & Company, Inc. |

**1431 S LELAND AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |

**1439 S LELAND AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |

**1441 S LELAND AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | LOVITIOJoee | Haines & Company, Inc. |

**1501 S LELAND AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | MCLEODRory | Haines & Company, Inc. |

**1505 S LELAND AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |

**1515 S LELAND AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | EASTMANJi II | Haines & Company, Inc. |

# FINDINGS

**1523 S LELAND AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | POWERSFrank | Haines & Company, Inc. |

**1541 S LELAND AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | SKOMERZAJeass | Haines & Company, Inc. |

**1603 S LELAND AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |

**1621 S LELAND AVE**

| Year | Uses | Source |
|---|---|---|
| 2001 | MCDONALDJose | Haines & Company, Inc. |

## S LELAND ST

**1331 S LELAND ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | CASALICCHIO FRED | Pacific Telephone |

**1402 S LELAND ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | HOLLISTER CLAUD G | Pacific Telephone |

**1403 S LELAND ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | MCINTOSH DONALD | Pacific Telephone |
| | PHILLIPS EDW B | Pacific Telephone |
| | ROCKWELL RALPH G | Pacific Telephone |
| | CARAVELLO TONY | Pacific Telephone |

**1404 S LELAND ST**

| Year | Uses | Source |
|---|---|---|
| 1958 | Hall Flora E | Pacific Telephone |

**1410 S LELAND ST**

| Year | Uses | Source |
|---|---|---|
| 1958 | Paiz Vincent P | Pacific Telephone |

# FINDINGS

**1412 S LELAND ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | HEIDEMANN E F | Pacific Telephone |

**1414 S LELAND ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | MAKI REINO O | Pacific Telephone |

**1416 S LELAND ST**

| Year | Uses | Source |
|---|---|---|
| 1958 | Blancarte A H | Pacific Telephone |

**1423 S LELAND ST**

| Year | Uses | Source |
|---|---|---|
| 1958 | Thiele Larry | Pacific Telephone |

**1425 S LELAND ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | DENTONE JOHN | Pacific Telephone |
| 1935 | Mullen M E r | Los Angeles Directory Co. |

**1431 S LELAND ST**

| Year | Uses | Source |
|---|---|---|
| 1935 | Welsh Robert r | Los Angeles Directory Co. |

**1439 S LELAND ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | ANDROVICH CARL | Pacific Telephone |

**1441 S LELAND ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | LOVITTO JOE | Pacific Telephone |

**1501 S LELAND ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | MAC KILLIGAN EA | Pacific Telephone |

**1505 S LELAND ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | ROBINSON CLYDE R | Pacific Telephone |

# FINDINGS

**1515 S LELAND ST**

| Year | Uses | Source |
|---|---|---|
| 2008 | GOLD CANYON 4 U | Cole Information Services |
| | POLLYWOOD DESIGNS | Cole Information Services |
| 1970 | ERICSSON HAROLD C | Pacific Telephone |

**1523 S LELAND ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | LEIGH THOS R | Pacific Telephone |

**1531 S LELAND ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | TRANI NICHOLAS N | Pacific Telephone |

**1541 S LELAND ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | SKOMERZA JESS | Pacific Telephone |

**1603 S LELAND ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | BOCARSKI LJUBO | Pacific Telephone |

## W 139TH ST

**953 W 139TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | MAGALLANEZ ALFRED A | Pacific Telephone |
| | MAGALLANE 2 ALFRED or | Pacific Telephone and Telegraph Company |
| 1957 | MAGALLANEZ ALFRED A | Pacific Telephone |

**1002 W 139TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | ROGER BERNARD L | Pacific Telephone |
| | ROGER BERNARD L OS | Pacific Telephone and Telegraph Company |
| 1957 | ROGER BERNARD L | Pacific Telephone |

**1006 W 139TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | ECKMAN CHARLES P 0 S | Pacific Telephone and Telegraph Company |
| | J 007 PIFER HOLLIS L | Pacific Telephone and Telegraph Company |
| | ECKMAN CHAS P | Pacific Telephone |
| 1957 | ECKMAN CHAS P | Pacific Telephone |

# FINDINGS

**1007 W 139TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | PIFER HOLLIS L | Pacific Telephone |
| 1957 | PIFER HOLLYWOOD L | Pacific Telephone |

**1010 W 139TH ST**

| Year | Uses | Source |
|---|---|---|
| 1964 | LADA DOROTHY M | Pacific Telephone |
| 1960 | LADA FRANK E 05 S | Pacific Telephone and Telegraph Company |
| | LADA FRANK E | Pacific Telephone |
| | LADA DOROTHY M | Pacific Telephone |

**1011 W 139TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | SERPICO THOS P | Pacific Telephone and Telegraph Company |
| | SERPICO THOS P | Pacific Telephone |
| 1957 | CAMPBELL SIDNEY E | Pacific Telephone |

**1014 W 139TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | DORNAN HUGH | Pacific Telephone |
| | DORNAN HUGH | Pacific Telephone and Telegraph Company |
| 1957 | DOREEN HUGH | Pacific Telephone |

**1015 W 139TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | FENNER C | Pacific Telephone and Telegraph Company |
| | FENNER CLAUDE | Pacific Telephone |
| 1957 | FENNER CLAUDE | Pacific Telephone |

**1018 W 139TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | VALLINE FLOYD M | Pacific Telephone |
| | VALLINE FLOYD M | Pacific Telephone and Telegraph Company |
| 1957 | KRAFT J J | Pacific Telephone |

**1019 W 139TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | MAYER CLYDE V | Pacific Telephone |
| | DEITCH | Pacific Telephone and Telegraph Company |
| 1957 | MAYER CLYDE V | Pacific Telephone |

# FINDINGS

**1022 W 139TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | SHEEHAN JOHN F | Pacific Telephone |
| | SHEEHAN JOHN F | Pacific Telephone and Telegraph Company |
| 1957 | SHEEHAN JOHN F | Pacific Telephone |

**1023 W 139TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | MITCHELL JAMES R 0 S | Pacific Telephone and Telegraph Company |
| | MITCHELL JAS R | Pacific Telephone |
| 1957 | ITCHEFLL JAN R | Pacific Telephone |

**1026 W 139TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | HAAS ARTHUR D CAPT | Pacific Telephone |
| | HAAS ARTHUR D CAPT 05 S | Pacific Telephone and Telegraph Company |
| 1957 | MILLWC | Pacific Telephone |

**1027 W 139TH ST**

| Year | Uses | Source |
|---|---|---|
| 1957 | INGLE PAUL W | Pacific Telephone |

**1031 W 139TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | BRAMHALL GROVER C | Pacific Telephone and Telegraph Company |
| | BRAMHALL GROVER C | Pacific Telephone |
| 1957 | MCNARY ROBT D | Pacific Telephone |

**1036 W 139TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | JOHNSON GEO A | Pacific Telephone |
| | JOHNSON GEORGE A 05 S | Pacific Telephone and Telegraph Company |
| 1957 | JOHIISON GAS A | Pacific Telephone |

**1039 W 139TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | NEE GLENN | Pacific Telephone |
| | DODGE RICHARD D:JR | Pacific Telephone and Telegraph Company |
| 1957 | NEE GLENN | Pacific Telephone |

# FINDINGS

**1040 W 139TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | COUNIHAN MARK J | Pacific Telephone and Telegraph Company |
| 1957 | COUNIHAN MARK J | Pacific Telephone |

**1044 W 139TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | CHAPIN PAUL | Pacific Telephone |
| | CHAPIN PAUL OS | Pacific Telephone and Telegraph Company |
| | 139TH STREET WEST FROM CONTINUED | Pacific Telephone and Telegraph Company |
| 1957 | CHAPIN PAUL | Pacific Telephone |

**1047 W 139TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | LAFFEY DUANE J | Pacific Telephone |
| | LAFFEY DUANE J | Pacific Telephone and Telegraph Company |
| 1957 | LAFFEY DUANEJ **-* HN | Pacific Telephone |

**1048 W 139TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | DORS PHILIP T | Pacific Telephone and Telegraph Company |
| | DORS PHILIP T | Pacific Telephone |
| 1957 | DORS PHILIP T | Pacific Telephone |

## W 13TH

**964 W 13TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | Trani F r | Los Angeles Directory Co. |

**965 W 13TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | Bratsalis A r | Los Angeles Directory Co. |

**971 W 13TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | Apfel H W Dr r | Los Angeles Directory Co. |

**974 W 13TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | Gold Henry r | Los Angeles Directory Co. |

# FINDINGS

**978 W 13TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | Mc Kenzaie D r | Los Angeles Directory Co. |

**1010 W 13TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | Sowell R r | Los Angeles Directory Co. |
| 1924 | FAULKNER Margt clk San Pedro Variety Store r | Los Angeles Directory Co. |
| | St John Chas E asst frt agt P E Ry r | Los Angeles Directory Co. |

**1014 W 13TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | King K L Mrs r | Los Angeles Directory Co. |

**1018 W 13TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | Cruger Jarnmes H r | Los Angeles Directory Co. |
| 1924 | Sandham Chas B patnmkr h | Los Angeles Directory Co. |

**1020 W 13TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | Sims E G r | Los Angeles Directory Co. |
| 1924 | James Agnes r | Los Angeles Directory Co. |
| | JAMES Kath r | Los Angeles Directory Co. |
| | Moncrieff Harry N h | Los Angeles Directory Co. |

**1021 W 13TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | Hamilton John D r | Los Angeles Directory Co. |

**1022 W 13TH**

| Year | Uses | Source |
|---|---|---|
| 1924 | HILTON Merritt mgr Postal Tel Cable Co h | Los Angeles Directory Co. |

**1032 W 13TH**

| Year | Uses | Source |
|---|---|---|
| 1942 | CHASE DIET SANITARIUM Mrs Mildred C Cooke | Los Angeles Directory Co. |

**1035 W 13TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | Bullock Frederlok Wm Prof r | Los Angeles Directory Co. |

# FINDINGS

**1042 W 13TH**

| Year | Uses | Source |
|---|---|---|
| 1935 | Mrine WPF Mrs r | Los Angeles Directory Co. |

## W 13TH ST

**956 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | DIBERNARDO Michael 00 ROUZIE | Haines & Company, Inc. |

**957 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | ABBATIELLOTom G | Haines & Company, Inc. |

**964 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | TRANI P | Haines & Company, Inc. |
| 1985 | TRANI F | Pacific Bell |
| 1970 | TRANI F | Pacific Telephone |
| 1964 | TRANI F | Pacific Telephone |
| 1960 | TRANI F | Pacific Telephone |
| 1957 | TRAM F | Pacific Telephone |
| 1954 | TRANI F R | R. L. Polk & Co. |
| 1950 | TRANI F R | Pacific Telephone |

**967 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |

**971 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | SAVELY J R MRS | Pacific Telephone |
| 1957 | SAVELY J R MRS | Pacific Telephone |
| 1954 | SAVELY J R MRS R | R. L. Polk & Co. |
| 1950 | SAVELYJ R MRS R | Pacific Telephone |

**975 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 1957 | WALSH ELEANOR | Pacific Telephone |

# FINDINGS

**977 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | MEDEL Mil | Haines & Company, Inc. |

**978 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 1950 | OWENS J D R | Pacific Telephone |

**982 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | RIVERAJohn | Haines & Company, Inc. |

**983 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | SLOMELIDavid | Haines & Company, Inc. |

**990 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | DIBERNARDOPasquale | Haines & Company, Inc. |

**1005 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | VASCONCELLOSP | Haines & Company, Inc. |

**1010 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 2008 | XCELLENCE ENTERPRISES | Cole Information Services |

**1014 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | GOYNEIVy L | Haines & Company, Inc. |

**1018 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 2008 | THE ANGEL MILK GROUP INC | Cole Information Services |
| 2001 | MITCHELL Paul | Haines & Company, Inc. |
| 1967 | Kraus Stanley S Capt | Pacific Telephone |

**1020 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |

# FINDINGS

**1021 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | ODETTER Beatrice | Haines & Company, Inc. |

**1027 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | PLIMMERJoel | Haines & Company, Inc. |

**1034 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | SRUDANLucy | Haines & Company, Inc. |

**1035 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | OJURE Francis | Haines & Company, Inc. |

**1036 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 1958 | Torres Israel Z | Pacific Telephone |

**1042 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | 0 RUDANLucy | Haines & Company, Inc. |

**1043 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | PIEPENBRINKJames | Haines & Company, Inc. |

**1048 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |

**1049 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | BERGDAHLWm E | Haines & Company, Inc. |

**1057 W 13TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | OLOGRASSOSalvalore | Haines & Company, Inc. |

# FINDINGS

## W 14TH

**956 W 14TH**

| Year | Uses | Source |
|---|---|---|
| 1935 | King Herbert M r | Los Angeles Directory Co. |

**965 W 14TH**

| Year | Uses | Source |
|---|---|---|
| 1935 | Rosvold Nets r | Los Angeles Directory Co. |

**995 W 14TH**

| Year | Uses | Source |
|---|---|---|
| 1935 | Evenburg M r | Los Angeles Directory Co. |

**1027 W 14TH**

| Year | Uses | Source |
|---|---|---|
| 1924 | Hirschman Edwd F clk r | Los Angeles Directory Co. |
| | NELSON Philip A slsmn H P Mallinson S Pedro h | Los Angeles Directory Co. |

**1035 W 14TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | Evans H L r | Los Angeles Directory Co. |

**1038 W 14TH**

| Year | Uses | Source |
|---|---|---|
| 1924 | STRICKLAND Wm H steamftr h | Los Angeles Directory Co. |

**1043 W 14TH**

| Year | Uses | Source |
|---|---|---|
| 1924 | Griffin Oscar W h | Los Angeles Directory Co. |

**1048 W 14TH**

| Year | Uses | Source |
|---|---|---|
| 1924 | JENSEN Marie E h | Los Angeles Directory Co. |

**1057 W 14TH**

| Year | Uses | Source |
|---|---|---|
| 1933 | Paulli John Corrine clk Dept Water & Power | Los Angeles Directory Co. |
| 1924 | Paulli John meter reader Dept of Pub Service r | Los Angeles Directory Co. |
| | Paulli Corine Mrs tailor r | Los Angeles Directory Co. |

# FINDINGS

**1065 W 14TH**

| Year | Uses | Source |
|---|---|---|
| 1924 | DAVIS Herbt P clk r | Los Angeles Directory Co. |

**1072 W 14TH**

| Year | Uses | Source |
|---|---|---|
| 1924 | Lundquist Luther E carp h | Los Angeles Directory Co. |

**1073 W 14TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | OConnell W E Mrs r | Los Angeles Directory Co. |
| 1924 | OConnell Wm h | Los Angeles Directory Co. |

**1103 W 14TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | Gerry WA r | Los Angeles Directory Co. |

## W 14TH ST

**926 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | FAUSTOLuc | Haines & Company, Inc. |
| 1985 | DI LEVA VINCENT | Pacific Bell |
| 1980 | DI LEVA VINCENT | Pacific Telephone |
| 1975 | DI LEVA VINCENT | Pacific Telephone |
| 1970 | DI LEVA VINCENT | Pacific Telephone |
| 1964 | EVANISEVICH JEANETTE | Pacific Telephone |
| | EVANISEVICH JOHNNY | Pacific Telephone |
| 1960 | EVAENSEVICH JUVANA | Pacific Telephone |
| 1957 | EVANISEVICH JEANETTE | Pacific Telephone |
| | EVANISEVICH JOHNNY A | Pacific Telephone |
| 1954 | EVANISEVICH JEANETTE | R. L. Polk & Co. |
| 1950 | EVANISEVICH JOHN R | Pacific Telephone |
| 1935 | Wolfe A S Comdr r | Los Angeles Directory Co. |

**927 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | FAUSTOLuc | Haines & Company, Inc. |
| 1970 | MCDONALD JOSE L | Pacific Telephone |
| 1964 | FRANTA LAWRENCE J | Pacific Telephone |
| 1960 | CHARNEY JOHB A | Pacific Telephone |

| Year | Uses | Source |
|---|---|---|
| 1957 | REUD MVAURICE0 | Pacific Telephone |
| 1954 | RUUD MAURICE0 | R. L. Polk & Co. |
| 1950 | HANSEN JR | Pacific Telephone |

**934 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | LA FARGA VINCENT A | Pacific Bell |
| 1980 | LA FARGA VINCENT A | Pacific Telephone |
| 1975 | LA FARGA VINCENT A | Pacific Telephone |
| 1964 | WELKER W M | Pacific Telephone |
| 1960 | WELKER W M | Pacific Telephone |
| 1957 | *WELKER W M | Pacific Telephone |
| 1954 | WELKER W M R | R. L. Polk & Co. |
| 1950 | WELKER W NIR | Pacific Telephone |

**935 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | ANTOLA AINA | Pacific Telephone |
| 1950 | LARSON ARNOLD M R | Pacific Telephone |

**936 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | LAFABGAVSnctl A | Haines & Company, Inc. |

**939 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |
| 1970 | ESTRADA LUISA G | Pacific Telephone |
| 1960 | BODUL ROBT J | Pacific Telephone |
| 1957 | DUFFY DONALD K | Pacific Telephone |

**941 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |
| 1957 | ZACCARIA PAUL C | Pacific Telephone |

**942 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | LAFABGA Vincent | Haines & Company, Inc. |
| 1975 | GERMAN TOM | Pacific Telephone |

| Year | Uses | Source |
|---|---|---|
| 1970 | SAN PEDRO ELEC CO | Pacific Telephone |
| 1964 | WHITE H G | Pacific Telephone |
| 1960 | WHITE H G | Pacific Telephone |
| 1957 | SAN PEDRO EFLE CO | Pacific Telephone |
| | WHITE H G | Pacific Telephone |
| 1954 | SAN PEDRO ELEC CO | R. L. Polk & Co. |
| | WHITE H G R | R. L. Polk & Co. |
| 1950 | SAN PEDRO ELEC CO | Pacific Telephone |
| | WHITE H G R | Pacific Telephone |
| 1935 | White H G r | Los Angeles Directory Co. |

**943 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1957 | LA PINTA JOE | Pacific Telephone |

**947 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |
| 1957 | MARLNCOVICH LUCY | Pacific Telephone |
| 1954 | MARINCOVICH LUCY R | R. L. Polk & Co. |
| 1950 | MARINCOVICH LUCY R | Pacific Telephone |

**948 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2008 | ANCHOR T CORP | Cole Information Services |
| 2001 | 6 XXX | Haines & Company, Inc. |
| 1975 | DOLAN DAN M | Pacific Telephone |
| 1970 | TUREK MORRIS | Pacific Telephone |
| 1964 | TUREK MORRIS | Pacific Telephone |
| 1960 | TUREK MORRIS | Pacific Telephone |
| 1957 | TUREK MORRIS | Pacific Telephone |
| 1954 | TUREK MORRIS | R. L. Polk & Co. |
| 1935 | Anderson Gee A r | Los Angeles Directory Co. |

**949 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | CONNORS LORRAINE | Pacific Telephone |
| 1957 | KREHSLIN EUGENE | Pacific Telephone |
| 1954 | WILSON WM D | R. L. Polk & Co. |

# FINDINGS

**951 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1964 | AKERSON CAROLEE | Pacific Telephone |
| | AKERSON JEROME J | Pacific Telephone |
| 1954 | NEWQUEST JIMMIE | R. L. Polk & Co. |
| 1950 | CRISA JOHNR | Pacific Telephone |

**952 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1964 | SAN PEDRO ELEC CO | Pacific Telephone |

**956 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | TUBEROSIJhn | Haines & Company, Inc. |
| | XXXX | Haines & Company, Inc. |
| 1980 | JONES MARSHA | Pacific Telephone |
| 1975 | GIRARD DONALD L | Pacific Telephone |
| 1970 | NEUMANN THOS R | Pacific Telephone |
| 1960 | KING HERBERT M | Pacific Telephone |
| 1957 | IKING HERBERT M | Pacific Telephone |
| 1954 | KING HERBERT M R | R. L. Polk & Co. |
| 1950 | KING HERBERT M R | Pacific Telephone |

**957 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |
| 1970 | MILIVOJEVIC VOJA | Pacific Telephone |
| 1954 | ROGERS F N R | R. L. Polk & Co. |
| 1950 | ROGERS F N R | Pacific Telephone |

**958 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | FAWELL W J | Pacific Bell |
| 1970 | TUBEROSI JOHN | Pacific Telephone |

**960 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | CAMPBELLJ | Haines & Company, Inc. |

# FINDINGS

**964 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | SFAUSTOMary | Haines & Company, Inc. |
| 1970 | ATWOOD JOHN S REV | Pacific Telephone |
| 1964 | DOCTOR KENNETH D REV | Pacific Telephone |
| 1960 | ESSERT F HAROLD REV | Pacific Telephone |
| 1957 | ESSERT F HAROLD REV | Pacific Telephone |
| 1954 | ESSERT F HAROLD REV | R. L. Polk & Co. |

**965 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | DEACON THOS | Pacific Telephone |
| 1964 | PAULSEN A F | Pacific Telephone |
| 1960 | PAULSEN A F | Pacific Telephone |
| 1957 | PAULSEN A F | Pacific Telephone |
| 1954 | PAULSEN A F R | R. L. Polk & Co. |
| 1950 | PAULSEN A F R | Pacific Telephone |

**967 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | GRAPER THOS D | Pacific Telephone |
| 1960 | MARDESICH PETE MRS | Pacific Telephone |

**969 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | NEVAREZ E | Pacific Telephone |
| 1957 | CASSADY DON | Pacific Telephone |
| 1954 | PORTUGAL NADINE | R. L. Polk & Co. |
| 1950 | OWEN DUDLEY R | Pacific Telephone |

**972 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | HEVE 6 E 1 Christ | Haines & Company, Inc. |
| 1985 | SCIASCIA MARIO | Pacific Bell |
| | CLINTON C A | Pacific Bell |
| | BALDWIN ROBT E | Pacific Bell |
| 1980 | EMERSON CARLA | Pacific Telephone |
| 1975 | MATTIS DAVE L | Pacific Telephone |
| 1970 | MORRIS HOWARD A | Pacific Telephone |
| 1964 | RIDDLE ROYAL S MRS | Pacific Telephone |
| 1960 | RIDDLE ROYAL S MRS | Pacific Telephone |

| Year | Uses | Source |
|---|---|---|
| 1957 | RIDDLE ROYAL S MRS | Pacific Telephone |
| 1954 | HEILIG W FRED | R. L. Polk & Co. |
| 1950 | HEILIG W FRED R | Pacific Telephone |

**974 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | CURARA LUIS | Pacific Telephone |
| 1960 | MUNOZ FELIX | Pacific Telephone |
| 1957 | SMITH CARROLL | Pacific Telephone |
| 1950 | NEWMAN DON L R | Pacific Telephone |

**975 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1964 | ZAMBERLIN VINCENT | Pacific Telephone |
| 1960 | ZAMBERLIN VINCENT | Pacific Telephone |
| 1957 | ZAMBERLIN VINCENT | Pacific Telephone |
| 1954 | ZAMBERLIN VINCENT R | R. L. Polk & Co. |

**978 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1980 | IACONO RITA | Pacific Telephone |
| 1960 | IACONO C | Pacific Telephone |
| 1957 | IACONO C | Pacific Telephone |
| 1954 | IACONO C R | R. L. Polk & Co. |
| 1950 | LACONO C R | Pacific Telephone |

**981 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1980 | ANGELS GATE HIGH SCHOOL | Pacific Telephone |

**995 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | HUMBLE J VICTOR | Pacific Telephone |
| | OLD JAS G | Pacific Telephone |
| | RINARD ROSE | Pacific Telephone |
| | BATINOVICH MATHEW N | Pacific Telephone |
| 1964 | SINGER JOHN R | Pacific Telephone |
| | ROSS JOHN M | Pacific Telephone |
| | BATINOVICH MATHEW N | Pacific Telephone |
| | HUMBLE J VICTOR | Pacific Telephone |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1960 | AZHDERIAN S A | Pacific Telephone |
| | BRUNNER FRED J | Pacific Telephone |
| | ROSS JOHN M | Pacific Telephone |
| | SINGER JOHN R | Pacific Telephone |
| 1957 | AZHDERIAN S A | Pacific Telephone |
| | LE PEN CHAS J | Pacific Telephone |
| 1954 | WILLISON JAS M R | R. L. Polk & Co. |
| | AZHDERIAN S A R | R. L. Polk & Co. |
| | LE PAZ CHASJR | R. L. Polk & Co. |
| 1950 | AZHDERIAN S A R | Pacific Telephone |
| | WILLISON JAS MR | Pacific Telephone |
| 1935 | Forster Harold M r | Los Angeles Directory Co. |
| | WIalsh Helen r | Los Angeles Directory Co. |

**1016 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1954 | SMITH FJ MCMILLAN FUNERAL CHAPEL | R. L. Polk & Co. |

**1021 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | ELDER Wi Lam | Haines & Company, Inc. |
| 1985 | CHUNG YANG C | Pacific Bell |
| | MORLOCK AMELIA | Pacific Bell |
| 1980 | ABRAHAMSON JOHN R | Pacific Telephone |
| | CROWDER CORNET | Pacific Telephone |
| | MARIANI VINKO | Pacific Telephone |
| | O HARE E V | Pacific Telephone |
| | BRAUN SYLVESTER | Pacific Telephone |
| 1975 | ABRAHAMSON JOHN R | Pacific Telephone |
| | CARR PETER | Pacific Telephone |
| | CARR PETER S | Pacific Telephone |
| | O HARE TIMOTHY | Pacific Telephone |
| 1970 | CARR PETER | Pacific Telephone |
| | O HARE TIMOTHY | Pacific Telephone |
| | ROMANO JERRY L | Pacific Telephone |

**1022 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1964 | ANDERSEN KARL A | Pacific Telephone |

| Year | Uses | Source |
|---|---|---|
| 1954 | PINKSTON W N R | R. L. Polk & Co. |
| 1950 | ANAST TOM N R | Pacific Telephone |

**1026 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | OMATTERAPas | Haines & Company, Inc. |
| 1985 | MATTERA PASQUALE | Pacific Bell |
| 1980 | MATTERA PASQUALE | Pacific Telephone |
| 1975 | MATTERA PASQUALE | Pacific Telephone |
| 1970 | MATTERA PASQUALE | Pacific Telephone |
| 1964 | BRONAUGH GEO M | Pacific Telephone |
| 1960 | BRONAUGH GEO M | Pacific Telephone |
| 1957 | BRONAUGH GEO M | Pacific Telephone |
| 1954 | BRONAUGH GEO M R | R. L. Polk & Co. |
| 1950 | BRONAUGH GEO M R | Pacific Telephone |

**1027 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | PULISELICH MICHAEL | Pacific Bell |
| 1970 | PULISELICH MICHAEL | Pacific Telephone |
| 1964 | PULISELICH MICHAEL | Pacific Telephone |
| 1960 | PULISELICH MICHAEL | Pacific Telephone |
| 1957 | PULISELICH MICHAEL | Pacific Telephone |
| 1954 | PULISELICH MICHAEL | R. L. Polk & Co. |
| | PULISELICH MICHAEL | R. L. Polk & Co. |
| 1950 | PULISELICH MICHAELR | Pacific Telephone |
| 1935 | Hansen A W r | Los Angeles Directory Co. |

**1034 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | NISKA | Haines & Company, Inc. |
| 1985 | DE VRIENDT JAYNE A | Pacific Bell |
| 1954 | LESSNER STEVE R | R. L. Polk & Co. |
| 1950 | LESSNER STEVE R | Pacific Telephone |

**1035 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | BOGDA | Haines & Company, Inc. |
| 1985 | BOGDANICH M | Pacific Bell |
| 1980 | BOGDANICH M | Pacific Telephone |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1975 | BOGDANICH M | Pacific Telephone |
| 1970 | BOGDANICH NICK | Pacific Telephone |
| 1964 | BOGDANICH NICK | Pacific Telephone |
| 1960 | BOGDANICH NICK | Pacific Telephone |
| 1957 | BOGDANICH NICK | Pacific Telephone |
| 1954 | BOGDANICH NICK R | R. L. Polk & Co. |
| 1950 | BOGDANICH NICK R | Pacific Telephone |
| 1935 | Bogdanich Nick r | Los Angeles Directory Co. |

**1036 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | PADRICK Shannon | Haines & Company, Inc. |
| 1985 | MARTINEZ A & D | Pacific Bell |
| 1964 | COTTON THIRZA | Pacific Telephone |
| 1960 | FEMATT JUNE | Pacific Telephone |
| 1957 | FLARES BENS R | Pacific Telephone |
| 1954 | SMITH RICHARD C | R. L. Polk & Co. |
| 1950 | KARHU GLENN R | Pacific Telephone |

**1042 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | PADRICK Shannon | Haines & Company, Inc. |
| 1985 | WEITLAUF J | Pacific Bell |
| 1970 | MURRAY NANCY | Pacific Telephone |
| 1964 | WEITLAUF C R | Pacific Telephone |
| 1960 | WEITLAUF C R | Pacific Telephone |
| 1957 | WEIT LAUF C R | Pacific Telephone |
| 1954 | WLTIAUF C R R | R. L. Polk & Co. |
| 1950 | WELTLAUF C R R | Pacific Telephone |
| 1935 | Peterson Andrew r | Los Angeles Directory Co. |

**1043 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | PADRICK Shannon | Haines & Company, Inc. |
| 1985 | BURCH A | Pacific Bell |
| | BOTRICH J M | Pacific Bell |
| 1980 | BURICH A | Pacific Telephone |
| 1975 | BURICH A | Pacific Telephone |
| | BURICH J M | Pacific Telephone |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1970 | BURICH A | Pacific Telephone |
| | BURICH J M | Pacific Telephone |
| 1964 | BURICH A | Pacific Telephone |
| | BURICH J M | Pacific Telephone |
| 1960 | BURICH A | Pacific Telephone |
| 1957 | BURICH A | Pacific Telephone |
| 1954 | BURICH A R | R. L. Polk & Co. |
| 1950 | BISRICH A R | Pacific Telephone |

**1048 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | MIRKOVICH MARIO JR | Pacific Bell |
| 1980 | MIRKOVICH MARIO JR | Pacific Telephone |
| 1975 | MIRKOVICH MARIO JR | Pacific Telephone |
| 1964 | PEARSON JACKSON | Pacific Telephone |
| 1960 | WEDDERBURN PAT | Pacific Telephone |
| 1957 | PALL ROBT E | Pacific Telephone |
| 1954 | TUBBS B W R | R. L. Polk & Co. |
| 1950 | TUBBS B W R | Pacific Telephone |
| 1935 | Wilson Andrew r | Los Angeles Directory Co. |

**1049 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |
| 1970 | SNEAD F E | Pacific Telephone |
| 1964 | SNEAD F E | Pacific Telephone |
| 1960 | SNEAD F E | Pacific Telephone |
| 1957 | SNEAD F E | Pacific Telephone |
| 1954 | SNEAD F E R | R. L. Polk & Co. |
| 1950 | SNEAD F E R | Pacific Telephone |

**1056 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | VAN 1 R | Haines & Company, Inc. |
| 1985 | VAN TRESS J W | Pacific Bell |
| 1964 | VAN TRESS J W | Pacific Telephone |
| 1960 | VAN TRESS J W | Pacific Telephone |
| 1957 | VAN TRESS J W | Pacific Telephone |
| 1954 | VAN TRESS J W R | R. L. Polk & Co. |

# FINDINGS

**1057 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | BR 6 DDT 10ya R | Haines & Company, Inc. |
| 1985 | COWAN KATHLEEN | Pacific Bell |
| 1975 | PAULLI JOHN | Pacific Telephone |
| 1970 | PAULLI JOHN | Pacific Telephone |
| 1964 | PAULLI JOHN | Pacific Telephone |
| 1960 | PAULLI JOHN | Pacific Telephone |
| 1957 | PAULLI JOHN | Pacific Telephone |
| 1954 | PAULLI JOHN R | R. L. Polk & Co. |
| 1950 | PAULLI JOHN R | Pacific Telephone |
| 1935 | Paulli John r | Los Angeles Directory Co. |

**1064 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | ESTES DAVID J | Pacific Bell |
| 1960 | SCHMITZ J S | Pacific Telephone |
| 1957 | SCHMLTZ J S | Pacific Telephone |
| 1954 | SCHMITZ J S R | R. L. Polk & Co. |
| 1950 | SCHMITZ J S R | Pacific Telephone |

**1065 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | ASAFrank | Haines & Company, Inc. |
| 1985 | ASA FRANK | Pacific Bell |
| 1980 | ASA FRANK | Pacific Telephone |
| 1975 | ASA FRANK | Pacific Telephone |
| 1970 | ASA FRANK | Pacific Telephone |
| 1964 | ASADA FRANK | Pacific Telephone |
| 1954 | WAGONER EARL | R. L. Polk & Co. |
| 1950 | WAGONER EARL R | Pacific Telephone |

**1072 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2008 | HAMMONDS PLUMBING | Cole Information Services |
| 2001 | MANUELCass | Haines & Company, Inc. |
| 1975 | ORLANDO FRANK | Pacific Telephone |
| 1970 | ORLANDO FRANK | Pacific Telephone |
| 1964 | MATHEIS MELVILLE J JR | Pacific Telephone |
| 1960 | SEIDMAN IRWIN M | Pacific Telephone |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1957 | SNELSON J G | Pacific Telephone |
| 1954 | SNELSON J G R | R. L. Polk & Co. |
| 1950 | N RIELSO G R | Pacific Telephone |
| 1935 | Stielsonr J G r | Los Angeles Directory Co. |

**1073 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | 0 WAGONE 6 Rrchard | Haines & Company, Inc. |
| 1985 | WAGONER EARL | Pacific Bell |
| 1964 | WAGONER EARL | Pacific Telephone |
| 1960 | WAGONER EARL | Pacific Telephone |
| 1957 | WAGONER EARL | Pacific Telephone |
| 1950 | THOMAS J W R | Pacific Telephone |
| 1935 | OConnell W E Mrs r | Los Angeles Directory Co. |

**1074 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | TUBEROSl Gruse | Haines & Company, Inc. |
| 1980 | BALDWIN N D | Pacific Telephone |
| 1975 | BALDWIN N D | Pacific Telephone |
| 1970 | BALDWIN IKE W | Pacific Telephone |
| 1964 | OLESON SYLVIA | Pacific Telephone |
| 1960 | HOOKS EDITH SHULTZ | Pacific Telephone |
| | RYPDAHL IDANEL | Pacific Telephone |

**1076 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | DELGADO LAURIE A | Pacific Bell |
| 1970 | KLAKOVICH LOUIS Z | Pacific Telephone |
| 1964 | KLAKOVICH LOUIS Z | Pacific Telephone |
| | KLAKOVICH EUGENE A | Pacific Telephone |

**1095 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |
| 1985 | MURRELL TERRY & LETICIA | Pacific Bell |
| | PIERRY THOMAS & KAREN | Pacific Bell |

# FINDINGS

**1103 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1964 | BUTTERFIELD EARL | Pacific Telephone |
| 1960 | BUTTERFIELD EARL | Pacific Telephone |
| 1957 | BURTTERFIELD EARL | Pacific Telephone |
| 1954 | WICK JOHN | R. L. Polk & Co. |
| 1950 | HAYNES CHAS L R | Pacific Telephone |

**995A W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1950 | SHOWAITER DONALD R R | Pacific Telephone |

**995B W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1954 | LIGHTNER LARRY | R. L. Polk & Co. |
| 1950 | LIGBLTNER L H R | Pacific Telephone |

**1034 1/2 W 14TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | NISKA HENRY E | Pacific Bell |
| 1980 | NISKA HENRY E | Pacific Telephone |
| 1975 | NISKA HENRY E | Pacific Telephone |
| 1970 | NISKA HENRY E | Pacific Telephone |
| 1964 | NISKA HENRY E | Pacific Telephone |
| 1960 | NISKA HENRY E | Pacific Telephone |
| 1957 | NISNLA HENRY E | Pacific Telephone |
| 1954 | NISKA HENRY E | R. L. Polk & Co. |

## W 15TH

**1004 W 15TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | Clark Geo W r | Los Angeles Directory Co. |

**1011 W 15TH**

| Year | Uses | Source |
|---|---|---|
| 1924 | PHIPPEN WM W Mfr of Vegetable Boiler Compound | Los Angeles Directory Co. |

**1020 W 15TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | FISHER Peter A Edith A | Los Angeles Directory Co. |

# FINDINGS

**1021 W 15TH**

| Year | Uses | Source |
|---|---|---|
| 1924 | Hyles nettle maid r | Los Angeles Directory Co. |

**1022 W 15TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | Guild H A r | Los Angeles Directory Co. |

**1030 W 15TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | Miexsell J H r | Los Angeles Directory Co. |

**1036 W 15TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | Carey R r | Los Angeles Directory Co. |

**1039 W 15TH**

| Year | Uses | Source |
|---|---|---|
| 1924 | READY Sarah E seam r | Los Angeles Directory Co. |

**1056 W 15TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | Sumner Jack M r | Los Angeles Directory Co. |

**1072 W 15TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | Pickering H E r | Los Angeles Directory Co. |

**1078 W 15TH**

| Year | Uses | Source |
|---|---|---|
| 1935 | Laird O E r | Los Angeles Directory Co. |
| 1929 | Truscott Anna r | Los Angeles Directory Co. |

**1082 W 15TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | Wetmore H E r | Los Angeles Directory Co. |

**1088 W 15TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | Gillespie Thomas r | Los Angeles Directory Co. |

# FINDINGS

**1101 W 15TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | TRACY Jos P h | Los Angeles Directory Co. |

## W 15TH PASS DROB 29 N

**1086 W 15TH PASS DROB 29 N**

| Year | Uses | Source |
|---|---|---|
| 1935 | Zimmerman R C r | Los Angeles Directory Co. |

## W 15TH ST

**1004 W 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | HADLEY E | Pacific Bell |
| 1970 | SAN PEDRO HIGH SCHOOL | Pacific Telephone |
| 1964 | GONZALES ANDREW | Pacific Telephone |
| 1960 | GONZALES ANDREW | Pacific Telephone |
| 1957 | GONZALES ANDREW | Pacific Telephone |
| 1954 | GONZALES ANDREW | R. L. Polk & Co. |
| 1950 | GIIGA GOER | Pacific Telephone |
| 1935 | Foettinger C A r | Los Angeles Directory Co. |

**1006 W 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 1964 | LLOYD BRILLA-MAY | Pacific Telephone |

**1022 W 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 1980 | GINOTTI JAS | Pacific Telephone |
| 1964 | WASENIUS A V | Pacific Telephone |
| 1960 | WASENIUS A V | Pacific Telephone |
| 1957 | GUILD EMMA M MRS | Pacific Telephone |
| 1954 | GUILD EMMA M MRS | R. L. Polk & Co. |
| 1950 | GUILD EMMA M MRS R | Pacific Telephone |

**1024 W 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | PETROS ANTON | Pacific Telephone |
| 1957 | PETROS ANTON | Pacific Telephone |

# FINDINGS

**1026 W 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | HNATH BILL | Pacific Bell |
| 1970 | HNATH BILL | Pacific Telephone |
| | HNATH BILL | Pacific Telephone |
| 1964 | O NEAL STEPHEN C | Pacific Telephone |
| | O NEAL JACQUELYN M | Pacific Telephone |
| 1957 | SOUPOS THOS J | Pacific Telephone |

**1028 W 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | TILLEMA JIM | Pacific Bell |
| 1960 | WEST WILLIS | Pacific Telephone |
| 1957 | L(NEZ SRECKO JR | Pacific Telephone |
| | CADDEO MARY | Pacific Telephone |

**1030 W 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | CARKUFF TIMOTHY J | Pacific Bell |
| 1980 | DISHMAN MEL | Pacific Telephone |
| 1957 | MONREAL EDW A | Pacific Telephone |

**1032 W 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | MARTINEZ MANUEL | Pacific Bell |
| 1980 | MARTINEZ MANUEL | Pacific Telephone |

**1034 W 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 1960 | BOWERS SANDRA | Pacific Telephone |
| | BOWERS CHARLEY | Pacific Telephone |
| 1950 | PIESH ANDREW J R | Pacific Telephone |

**1036 W 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 1980 | MADRID KEN | Pacific Telephone |
| 1975 | MATTERA PAOLO | Pacific Telephone |
| 1970 | MATTERA PAOLO | Pacific Telephone |
| 1964 | ROYBAL CHAS | Pacific Telephone |
| 1950 | MATUNICH JOS R | Pacific Telephone |

# FINDINGS

**1038 W 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 1980 | ANCIENT ARTS | Pacific Telephone |
| 1964 | SPOLVER MARIA | Pacific Telephone |
| 1960 | BRIDGEHOUSE MARYLOU | Pacific Telephone |
| 1957 | FELANDO GERALD N | Pacific Telephone |
| 1954 | PETROS ANTON R | R. L. Polk & Co. |
| 1950 | PETROS ANTON R | Pacific Telephone |

**1042 W 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 1970 | MATTERA ANLELLO E | Pacific Telephone |
| 1964 | MATTERA ANIELLO E | Pacific Telephone |
| 1950 | DA CRUZ MARY M R | Pacific Telephone |
| 1935 | Eckhardt W F Mrs r | Los Angeles Directory Co. |

**1048 W 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | DOYLE KEVIN | Pacific Bell |
| 1980 | HIBDON DENNIS | Pacific Telephone |
| 1975 | MC LELLAN YVONNE | Pacific Telephone |
| 1964 | SUGGETT IRENE | Pacific Telephone |
| | SUGGETT SAM | Pacific Telephone |
| 1960 | HARRINGTON C B | Pacific Telephone |
| 1957 | HARRINGTON C B | Pacific Telephone |
| 1954 | JENTRY W R | R. L. Polk & Co. |
| 1950 | KULJIS ANTON R | Pacific Telephone |

**1056 W 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | PETRUZZELLI VINCE | Pacific Bell |
| | PETRUZZELLI LUCA | Pacific Bell |
| 1980 | MONTAGUE CLAUDIA | Pacific Telephone |
| 1970 | MORTON FRANK R | Pacific Telephone |
| | MORLEY HAROLD EUGENE | Pacific Telephone |
| | CARIC RAJKO | Pacific Telephone |
| 1964 | HERRMANN ROBT H | Pacific Telephone |
| | BROWNING ROBT C | Pacific Telephone |
| 1960 | RANEY ERMALENE E | Pacific Telephone |
| 1957 | RANEY ERMALENE E | Pacific Telephone |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1954 | RANEY ERMALENE E | R. L. Polk & Co. |

**1064 W 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | BROCK BILLY M | Pacific Bell |
| | BROCK RACHAEL & BILLY | Pacific Bell |
| 1980 | BROCK BILLY M | Pacific Telephone |
| 1975 | BROCK BILLY M | Pacific Telephone |
| 1970 | BROCK BILLY M | Pacific Telephone |
| 1964 | LAURO MICHELE | Pacific Telephone |
| 1960 | LAURO MICHELE | Pacific Telephone |
| 1957 | LAURO MICHELE | Pacific Telephone |
| 1954 | LAURO NILICHELE R | R. L. Polk & Co. |
| 1950 | LAURA MICHELE R | Pacific Telephone |
| 1935 | Rettig F H r | Los Angeles Directory Co. |

**1072 W 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 2008 | PAVANE MUSIC INC | Cole Information Services |
| 1985 | ANGST A H | Pacific Bell |
| 1980 | ANGST A H | Pacific Telephone |
| 1975 | ANGST A H | Pacific Telephone |
| 1970 | ANGST A H | Pacific Telephone |
| 1964 | ANGST A H | Pacific Telephone |
| 1960 | ANGST A H | Pacific Telephone |
| 1957 | ANGST A H | Pacific Telephone |
| 1954 | ANGST A H R | R. L. Polk & Co. |
| 1950 | ANGST A H R | Pacific Telephone |
| 1935 | Wilson Wallace C r | Los Angeles Directory Co. |

**1078 W 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 1980 | CAMPA THOS | Pacific Telephone |
| 1964 | JONCICH NICK | Pacific Telephone |
| 1960 | JONCICH NICK | Pacific Telephone |
| 1957 | DOMJANOV JOHN | Pacific Telephone |
| 1954 | DOMJANOV JOHN R | R. L. Polk & Co. |
| 1950 | DAM JANOV JOHN R | Pacific Telephone |

# FINDINGS

**1082 W 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | HEARD JACK | Pacific Bell |
| 1980 | HEARD JACK | Pacific Telephone |
| 1975 | HEARD JACK | Pacific Telephone |
| 1970 | HEARD JACK | Pacific Telephone |
| 1964 | HEARD JACK | Pacific Telephone |
| 1960 | HEARD JACK | Pacific Telephone |
| 1957 | HEARD JACK | Pacific Telephone |
| 1954 | HEARD JACK R | R. L. Polk & Co. |
| 1950 | HEARD JACK R | Pacific Telephone |

**1086 W 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 1985 | CLEMENGER D E | Pacific Bell |
| 1975 | CASTILLO EVA | Pacific Telephone |
| 1960 | LLOYD BRILLA MAY | Pacific Telephone |
| 1957 | LLOYD BRILA-MAY | Pacific Telephone |
| 1954 | LLOYD WM ROSS REV R | R. L. Polk & Co. |
| 1950 | LLOYD WM ROSS REV R | Pacific Telephone |

**1088 W 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 1964 | TORQUATO FRANK | Pacific Telephone |
| 1960 | DOBBS MAMIE R MRS | Pacific Telephone |
| 1957 | DOBBS MAMLE R MRS | Pacific Telephone |
| 1954 | TORQUATO FRANK | R. L. Polk & Co. |
| 1950 | BIGGS E D R | Pacific Telephone |

**1028 1/2 W 15TH ST**

| Year | Uses | Source |
|---|---|---|
| 1964 | HOLSTEN RAY | Pacific Telephone |
| 1960 | LA CANFORA PATRICK JR | Pacific Telephone |
| 1957 | PEUGEOT KENNETH | Pacific Telephone |

## W 15TH ST S

**1030 W 15TH ST S**

| Year | Uses | Source |
|---|---|---|
| 1935 | North Ruth r | Los Angeles Directory Co. |

# FINDINGS

## W 16TH

**1101 W 16TH**

| Year | Uses | Source |
|---|---|---|
| 1924 | Givan Mary L dept mgr Mc Causland Bros r | Los Angeles Directory Co. |

## W 17TH

**951 W 17TH**

| Year | Uses | Source |
|---|---|---|
| 1935 | Worden G D r | Los Angeles Directory Co. |

## W 17TH ST

**953 W 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |

**959 W 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | EHLERSElic | Haines & Company, Inc. |

**964 W 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 1935 | Yasuda Tom K r | Los Angeles Directory Co. |

**965 W 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 2013 | LOCKSMITH | Cole Information Services |
| 2001 | GUIMAR | Haines & Company, Inc. |

**969 W 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | KAWABATATodd | Haines & Company, Inc. |

**971 W 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | KAWABATATodd | Haines & Company, Inc. |

**975 W 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |

# FINDINGS

**977 W 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | RAIKOVICHG | Haines & Company, Inc. |

**978 W 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 1935 | Acaiinovich Andrew r | Los Angeles Directory Co. |

**979 W 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |

**1005 W 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |

**1009 W 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | SILVAGuis | Haines & Company, Inc. |

**1021 W 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | OPEDERSONRobert | Haines & Company, Inc. |

**1022 W 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 1954 | RANDAZZO PAUL R | R. L. Polk & Co. |
| 1950 | RANDAZZO PAULR | Pacific Telephone |

**1023 W 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |

**1025 W 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | NAVARRO | Haines & Company, Inc. |

**1029 W 17TH ST**

| Year | Uses | Source |
|---|---|---|
| 2001 | ORITTNERKarl 00 I | Haines & Company, Inc. |

# FINDINGS

**1047 W 17TH ST**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | HURLEYGeorge | Haines & Company, Inc. |
| 1935 | Brown J J r | Los Angeles Directory Co. |

**1055 W 17TH ST**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 1950 | PAKUSICH J R | Pacific Telephone |

# FINDINGS

## TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 1001 W 15th Street | 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

## ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 1002 W 139TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
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| 1023 W 139TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1023 W 17TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
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| 1025 17TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 1029 W 17TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
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| 1030 W 15TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1030 W 15TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1030 W 15TH ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 1031 W 139TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1032 W 13TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1032 W 15TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1034 1/2 14TH W | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
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| 1034 W 13TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1034 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
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| 1035 13TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
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| 1036 W 15TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1038 W 14TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1923, 1921, 1920 |
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| 1041 17TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1042 13TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1042 14TH W | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1042 W 13TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 1042 W 13TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1042 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1042 W 15TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1043 13TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1043 13TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1043 14TH W | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1043 W 13TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1043 W 14TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1923, 1921, 1920 |
| 1043 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1065 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1044 W 139TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 1045 15TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1047 17TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1047 W 139TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1047 W 17TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1048 13TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1048 13TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1048 14TH W | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1048 E 15TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1048 W 139TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1048 W 13TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1048 W 14TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1923, 1921, 1920 |

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| 1048 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1048 W 15TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1049 13TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1049 13TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1049 W 13TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1049 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1054 17TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1055 17TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1055 W 17TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1056 14TH W | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1056 15TH W | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 1056 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1056 W 15TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1056 W 15TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1057 13TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1057 14TH W | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1057 W 13TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1057 W 14TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1923, 1921, 1920 |
| 1057 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1064 14TH W | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1064 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1064 W 15TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 1065 14TH W | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1065 W 14TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1923, 1921, 1920 |
| 1072 W 14TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1923, 1921, 1920 |
| 1072 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1072 W 14TH ST | 2013, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1072 W 15TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1072 W 15TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1072 W 15TH ST | 2013, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1073 13TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1073 W 14TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920 |
| 1073 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 1074 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1076 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1078 W 15TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1078 W 15TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1082 15TH W | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1082 W 15TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1082 W 15TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1086 W 15TH PASS DROB 29 N | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1086 W 15TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1088 15TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1088 W 15TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 1095 14TH W | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1095 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1101 W 15TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1101 W 16TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1923, 1921, 1920 |
| 1103 W 14TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1103 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1310 ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1310 S ALMA AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1310 S ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1311 ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 1311 S ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1312 ALMA | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1312 ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1312 S ALMA | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1313 ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1314 ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1316 ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1318 ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1319 ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1319 S ALMA AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1322 ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 1322 S ALMA AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1322 S ALMA ST | 2013, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1323 ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1323 S ALMA AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1325 ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1331 S LELAND ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1332 ALMA | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1332 ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1332 S ALMA AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1333 ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1340 ALMA | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 1340 S ALMA AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1341 ALMA | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1341 ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1341 S ALMA | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1341 S ALMA AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1402 S LELAND AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1402 S LELAND ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1403 LELAND S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1403 S LELAND AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1403 S LELAND ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 1405 S ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1410 S LELAND ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1411 ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1411 S ALMA AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1412 LELAND S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1412 S LELAND AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1412 S LELAND ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1414 LELAND S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1414 S LELAND AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 1414 S LELAND ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1416 S LELAND ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1419 ALMA | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1419 ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1419 S ALMA | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1419 S ALMA AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1422 ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1423 LELAND S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1423 S LELAND AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1423 S LELAND ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1424 ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 1425 LELAND S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1425 S LELAND AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1425 S LELAND ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1427 ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1429 ALMA | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1429 ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1429 S ALMA | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1429 S ALMA AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1431 LELAND S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1431 S LELAND AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1431 S LELAND ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 1435 ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1435 S ALMA AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1436 ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1439 S LELAND AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1439 S LELAND ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1441 LELAND S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1441 S LELAND AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1441 S LELAND ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1501 S LELAND AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1501 S LELAND ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1505 S LELAND AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 1515 S LELAND AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1515 S LELAND ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1515 S LELAND ST | 2013, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1523 S LELAND AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1523 S LELAND ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1531 LELAND S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1531 S LELAND ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1541 LELAND S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1541 S LELAND AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1541 S LELAND ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 1603 S LELAND AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1603 S LELAND ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1621 S LELAND AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1704 S ALMA ST | 2013, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1705 S ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1706 ALMA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1706 S ALMA AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1708 S ALMA AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 1711 S ALMA AVE | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 926 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 927 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 934 14TH W | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 934 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 935 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 936 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 939 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 941 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 942 14TH W | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 942 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 943 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 946 17TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 947 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 948 14TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 948 W 14TH ST | 2013, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 948 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 949 14TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 949 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 951 17TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 951 17TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 951 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 951 W 17TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 952 17TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 952 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 953 17TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 953 W 139TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 953 W 17TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 956 17TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 956 E 13TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 956 W 13TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 956 W 14TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 956 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 957 14TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 957 E 13TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 957 W 13TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 957 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 958 17TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 958 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 959 W 17TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 960 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 964 17TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 964 W 13TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 964 W 13TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 964 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 964 W 17TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 965 W 13TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 965 W 14TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 965 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 965 W 17TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 965 W 17TH ST | 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 967 13TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 967 W 13TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 967 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 969 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 969 W 17TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 971 17TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 971 W 13TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 971 W 13TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 971 W 17TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 972 14TH W | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 972 17TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 972 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
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| 974 13TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 974 W 13TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 974 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 975 17TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 975 W 13TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 975 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 975 W 17TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
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| 977 W 13TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 977 W 17TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
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| 978 W 13TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 978 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 978 W 17TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 979 W 17TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 981 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 982 W 13TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 983 W 13TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 990 W 13TH ST | 2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 995 W 14TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 995 W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 995A W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 995B W 14TH ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

# APPENDIX G

# CITY OF LOS ANGELES BUILDING PERMITS

**San Pedro High School**
1001 W 15th Street
San Pedro, CA 90731

Inquiry Number: 4583327.8
April 05, 2016

# EDR Building Permit Report

## Target Property and Adjoining Properties

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

# TABLE OF CONTENTS

## SECTION

**About This Report**

**Executive Summary**

**Findings**

**Glossary**

***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.

**Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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# EDR BUILDING PERMIT REPORT

## About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

## ASTM and EPA Requirements

ASTM E 1527-13 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquires (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

## Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.

EDR® Environmental Data Resources Inc

BUILD FAX PROPERTY HISTORY

# EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

A search of building department records was conducted by Environmental Data Resources, Inc (EDR) on behalf of Clark Seif Clark, Inc. on Apr 05, 2016.

**TARGET PROPERTY**

1001 W 15th Street
San Pedro, CA 90731

**SEARCH METHODS**

EDR searches available lists for both the Target Property and Surrounding Properties.

**RESEARCH SUMMARY**

Building permits identified: **YES**

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

**Los Angeles**

| *Year* | *Source* | *TP* | *Adjoining* |
|---|---|---|---|
| 2016 | City of Los Angeles, Department of Building and Safety | | X |
| 2015 | City of Los Angeles, Department of Building and Safety | | X |
| 2014 | City of Los Angeles, Department of Building and Safety | | X |
| 2013 | City of Los Angeles, Department of Building and Safety | | X |
| 2012 | City of Los Angeles, Department of Building and Safety | | X |
| 2011 | City of Los Angeles, Department of Building and Safety | | X |
| 2010 | City of Los Angeles, Department of Building and Safety | | X |
| 2009 | City of Los Angeles, Department of Building and Safety | | X |
| 2008 | City of Los Angeles, Department of Building and Safety | | X |
| 2007 | City of Los Angeles, Department of Building and Safety | | X |
| 2006 | City of Los Angeles, Department of Building and Safety | | X |
| 2005 | City of Los Angeles, Department of Building and Safety | | X |
| 2004 | City of Los Angeles, Department of Building and Safety | | X |
| 2003 | City of Los Angeles, Department of Building and Safety | | X |
| 2002 | City of Los Angeles, Department of Building and Safety | | X |
| 2001 | City of Los Angeles, Department of Building and Safety | | X |
| 2000 | City of Los Angeles, Department of Building and Safety | | X |
| 1999 | City of Los Angeles, Department of Building and Safety | | X |
| 1998 | City of Los Angeles, Department of Building and Safety | | X |
| 1997 | City of Los Angeles, Department of Building and Safety | | X |
| 1996 | City of Los Angeles, Department of Building and Safety | | |
| 1995 | City of Los Angeles, Department of Building and Safety | | |
| 1994 | City of Los Angeles, Department of Building and Safety | | |
| 1993 | City of Los Angeles, Department of Building and Safety | | |
| 1992 | City of Los Angeles, Department of Building and Safety | | |
| 1991 | City of Los Angeles, Department of Building and Safety | | |
| 1990 | City of Los Angeles, Department of Building and Safety | | |
| 1989 | City of Los Angeles, Department of Building and Safety | | |

# EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

| Year | Source | TP | Adjoining |
|---|---|---|---|
| 1988 | City of Los Angeles, Department of Building and Safety | | |

**BUILDING DEPARTMENT RECORDS SEARCHED**

Name: Los Angeles
Years: 1988-2016
Source: City of Los Angeles, Department of Building and Safety, SAN PEDRO, CA
Phone: (213) 482-6800

Name: Los Angeles County
Years: 1994-2016
Source: Los Angeles County, Building and Safety, LOS ANGELES, CA
Phone: (626) 458-6368

Name: Pittsburg
Years: 2000-2010
Source: City of Pittsburg, Building Division , PITTSBURG, CA
Phone: (925) 252-4850

Name: San Bernardino County
Years: 2002-2016
Source: San Bernardino County, Land Use, Building & Safety, FONTANA, CA
Phone: (909) 387-8311

Name: Long Beach
Years: 2008-2015
Source: City of Long Beach, Building and Safety, LONG BEACH, CA
Phone: (562) 570-LBDS

# TARGET PROPERTY FINDINGS

## TARGET PROPERTY DETAIL

**1001 W 15th Street**
**San Pedro, CA 90731**

No Permits Found

# ADJOINING PROPERTY FINDINGS

## ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

### S ALMA ST

**1310 S ALMA ST**

| | |
|---|---|
| Date: | **1/13/2010** |
| Permit Type: | |
| Description: | **No Plan Check TEAR OFF EXISTING ROOFING. RE-ROOF 10 SQUARES WITH CLASS 'A' MATERIALS. INSTALL MODIFIED BITUMEN.** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 100164000000759 |
| Status: | |
| Valuation: | $1,750.00 |
| Contractor Company: | |
| Contractor Name: | D & S ROOFING |

| | |
|---|---|
| Date: | **4/4/2000** |
| Permit Type: | |
| Description: | **No Plan Check EQ VALVE** |
| Permit Description: | **Plumbing** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 000424000005032 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | DADDARIO PLUMBING |

# ADJOINING PROPERTY FINDINGS

**1311 S ALMA ST**

| | |
|---|---|
| Date: | **3/12/1998** |
| Permit Type: | |
| Description: | **No Plan Check t/o(e) & reroof w/blt up - house 81/2 sqs & gar 3 1/2 sqs Permit approved by eng. SK** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 980164000004470 |
| Status: | |
| Valuation: | $3,000.00 |
| Contractor Company: | |
| Contractor Name: | HURST SERVICE ROOFING COMPANY |

**1312 S ALMA ST**

| | |
|---|---|
| Date: | **1/13/2010** |
| Permit Type: | |
| Description: | **No Plan Check TEAR OFF EXISTING ROOFING. RE-ROOF 10 SQUARES WITH CLASS 'A' MATERIALS. INSTALL MODIFIED BITUMEN.** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Duplex |
| Permit Number: | 100164000000761 |
| Status: | |
| Valuation: | $1,750.00 |
| Contractor Company: | |
| Contractor Name: | D & S ROOFING |

# ADJOINING PROPERTY FINDINGS

Date: **4/4/2000**
Permit Type:
Description: **No Plan Check EQ VALVE**

Permit Description: **Plumbing**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 000424000005033
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: DADDARIO PLUMBING

**1313 S ALMA ST**

Date: **3/27/2001**
Permit Type:
Description: **No Plan Check tear off and reroof-18sqrs.**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: 1 or 2 Family Dwelling Single Family Residence
Permit Number: 010164000005189
Status:
Valuation: $3,600.00
Contractor Company:
Contractor Name: OWNER-BUILDER

# ADJOINING PROPERTY FINDINGS

**1316 S ALMA ST**

| | |
|---|---|
| Date: | **8/14/1997** |
| Permit Type: | |
| Description: | **No Plan Check** |
| Permit Description: | **Plumbing** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 970424000007685 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | APPLIANCE INSTALLERS |

**1323 S ALMA ST**

| | |
|---|---|
| Date: | **9/22/2011** |
| Permit Type: | |
| Description: | **No Plan Check Change out wall heater** |
| Permit Description: | **HVAC** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 110447000010969 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | TONY'S HEATING & A/C SERVICE INC |

# ADJOINING PROPERTY FINDINGS

**1332 S ALMA ST**

| | |
|---|---|
| Date: | **11/13/2006** |
| Permit Type: | |
| Description: | **No Plan Check new a/c** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 060419000028261 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | G C HEATING & COOLING |

| | |
|---|---|
| Date: | **11/1/2006** |
| Permit Type: | |
| Description: | **No Plan Check NEW A/C AND FAU** |
| Permit Description: | **HVAC** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 060449000011617 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | G C HEATING & COOLING |

# ADJOINING PROPERTY FINDINGS

Date: **7/21/2006**
Permit Type:
Description: **No Plan Check GAS SERVICE EARTHQUAKE VALVE SUPPLEMENTAL TO PERMIT NO. 06042-40000-15872 (EQ VALVE PAID FOR ON ORIG. PERMIT)**

Permit Description: **Plumbing**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 060424000115872
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: FER PETE & SON PLUMBING AND SUPPLY CO

Date: **7/18/2006**
Permit Type:
Description: **No Plan Check GAS SEISMIC EARTHQUAKE VALVE**

Permit Description: **Plumbing**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 060424000015872
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: FER PETE & SON PLUMBING AND SUPPLY CO

Date: **6/24/2002**
Permit Type:
Description: **No Plan Check WATER HEATER CHANGE OUT.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 020429100017337
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ACTION CONTRACTORS

# ADJOINING PROPERTY FINDINGS

| | |
|---|---|
| Date: | **6/13/1997** |
| Permit Type: | |
| Description: | **No Plan Check remodel bathroom, include electric & plumbing** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 970164000013244 |
| Status: | |
| Valuation: | $5,000.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

**1341 S ALMA ST**

| | |
|---|---|
| Date: | **9/3/2009** |
| Permit Type: | |
| Description: | **No Plan Check CHANGE OUT 3 WINDOWS (SAME SIZE & TYPE FOR RESIDENTIAL BUILDINGS ONLY) DUAL GLAZING, LABELED AND CERTIFIED BY NATIONAL FENESTRATION RATING COUNCIL (NFRC), IS REQUIRED FOR DOORS AND WINDOWS REPLACED IN ALL RESIDENTIAL BUILDINGS, THREE STORIES OR LESS, PER SECTION 152(B) OF TITLE 24.** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 090164000013907 |
| Status: | |
| Valuation: | $600.00 |
| Contractor Company: | |
| Contractor Name: | BUSCEMI CONSTRUCTION |

# ADJOINING PROPERTY FINDINGS

**1429 S ALMA ST**

| | |
|---|---|
| Date: | **9/4/2008** |
| Permit Type: | |
| Description: | **Plan Check PROPOSED NEW ENTRANCE TO EXISTING GROUND FLOOR UNIT. (NO CHANGE IN FLOOR AREA)** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Duplex |
| Permit Number: | 080161000014299 |
| Status: | |
| Valuation: | $5,000.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

**1704 S ALMA ST**

| | |
|---|---|
| Date: | **1/19/2000** |
| Permit Type: | |
| Description: | **No Plan Check EQ VALVE** |
| Permit Description: | **Plumbing** |
| Work Class: | |
| Proposed Use: | Commercial |
| Permit Number: | 000424000000935 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | DADDARIO PLUMBING |

# ADJOINING PROPERTY FINDINGS

**S ALMA ST # 2**

**1411 S ALMA ST # 2**

| | |
|---|---|
| Date: | **7/12/2000** |
| Permit Type: | |
| Description: | **No Plan Check ROUGH IN TOILET/LAV SINK&INCLUDE FINISH WORK** |
| Permit Description: | **Plumbing** |
| Work Class: | |
| Proposed Use: | Apartment |
| Permit Number: | 000424000010533 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | SLOANE PLUMBING & HEATING |

**S LELAND ST**

**1515 S LELAND ST**

| | |
|---|---|
| Date: | **3/9/2005** |
| Permit Type: | |
| Description: | **No Plan Check SERVICE UPGRADE & NEW CIRCUITS** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 050414000005260 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | B & M ELECTRIC |

# ADJOINING PROPERTY FINDINGS

| | |
|---|---|
| Date: | **3/2/2000** |
| Permit Type: | |
| Description: | **No Plan Check EQ VALVE** |
| Permit Description: | **Plumbing** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 000424000003332 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

**1523 S LELAND ST**

| | |
|---|---|
| Date: | **7/21/2011** |
| Permit Type: | |
| Description: | **Plan Check 1 STORY MASTER BEDROOM, BATH AND LAUNDRY ADDITION TO (E) 1 STORY SFD AT REAR** |
| Permit Description: | **Bldg-Addition** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 110141000002210 |
| Status: | |
| Valuation: | $60,000.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

# ADJOINING PROPERTY FINDINGS

| | |
|---|---|
| Date: | **1/27/2011** |
| Permit Type: | |
| Description: | **No Plan Check miscellaneous rewiring** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 110419000001669 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | FIRST ELECTRICAL SERVICE |

| | |
|---|---|
| Date: | **1/25/2011** |
| Permit Type: | |
| Description: | **No Plan Check REPLACE WALL FURNACE TO NEW 35,000 BTU & THERMOSTAT** |
| Permit Description: | **HVAC** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 110444000000873 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

# ADJOINING PROPERTY FINDINGS

| | |
|---|---|
| Date: | **12/20/2010** |
| Permit Type: | |
| Description: | **No Plan Check Remodel Kitchen & Bathroom. Include Related Plumbing. Replace Water Heater. Replace 10 Windows (same size and location). R/R Damaged Footing, less than 10%. Remove Interior Plaster Walls & Replace with Drywall. Insulate wall where needed. Replace 3 Exterior Doors (same size and location).** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 100164000022994 |
| Status: | |
| Valuation: | $15,000.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

**1531 S LELAND ST**

| | |
|---|---|
| Date: | **12/6/2001** |
| Permit Type: | |
| Description: | **No Plan Check T/O(E) & REROOF W/COMP - 21SQS** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 010164000023423 |
| Status: | |
| Valuation: | $3,750.00 |
| Contractor Company: | |
| Contractor Name: | DEHONOR MORA LIBRADO |

# ADJOINING PROPERTY FINDINGS

**S LELAND ST APT 3 # 3**

**1431 S LELAND ST APT 3 # 3**

| | |
|---|---|
| Date: | **6/23/2004** |
| Permit Type: | |
| Description: | **No Plan Check REPLACE WATER HEATER.** |
| Permit Description: | **Plumbing** |
| Work Class: | |
| Proposed Use: | Apartment |
| Permit Number: | 040422000017956 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | DEPENDABLE ELECTRIC |

| | |
|---|---|
| Date: | **11/18/2003** |
| Permit Type: | |
| Description: | **No Plan Check EQ VALVE** |
| Permit Description: | **Plumbing** |
| Work Class: | |
| Proposed Use: | Apartment |
| Permit Number: | 030424000036158 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | PLUMB-PRO |

# ADJOINING PROPERTY FINDINGS

Date: **12/20/2002**
Permit Type:
Description: **No Plan Check INSTALL EQ VALVE**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 020429000039627
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: STANDARD PLUMBING

**S LELAND ST APT 5**

**1403 S LELAND ST APT 5**

Date: **12/12/2002**
Permit Type:
Description: **No Plan Check wall heater**

Permit Description: **HVAC**
Work Class:
Proposed Use: Apartment
Permit Number: 020444000011995
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: STEPHENS PLUMBING & HEATING

# ADJOINING PROPERTY FINDINGS

**W 13TH ST**

**1005 W 13TH ST**

| | |
|---|---|
| C.O. Issued Date: | **10/26/2005** |
| Date: | **1/26/2005** |
| Permit Type: | |
| Description: | **Plan Check enlarge kitchen.** |
| Permit Description: | **Bldg-Addition** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 050144000000604 |
| Status: | |
| Valuation: | $2,040.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

| | |
|---|---|
| Date: | **4/8/2004** |
| Permit Type: | |
| Description: | **No Plan Check INSTALL EQ VALVE** |
| Permit Description: | **Plumbing** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 040424000009651 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | SOUZA PLUMBING |

# ADJOINING PROPERTY FINDINGS

**1014 W 13TH ST**

| | |
|---|---|
| Date: | **5/14/2002** |
| Permit Type: | |
| Description: | **Plan Check Comply with order dated 12-18-01, demo leaning 1 car garage, slab remains to provide 1 open parking space (RD1.5 zone). DPI waived by inspector Ling. Sewer cap is not required.** |
| Permit Description: | **Bldg-Demolition** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Private Garage Misc. Bldg or Structure |
| Permit Number: | 020194000000625 |
| Status: | |
| Valuation: | $500.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

**1018 W 13TH ST**

| | |
|---|---|
| Date: | **12/11/2002** |
| Permit Type: | |
| Description: | **Plan Check ONE STORY CLOSET ADDITION TO (E) BEDROOM. 2'-4"x4'-4", 10 SQ FT.** |
| Permit Description: | **Bldg-Addition** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 020144000008042 |
| Status: | |
| Valuation: | $900.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

# ADJOINING PROPERTY FINDINGS

**1027 W 13TH ST**

| | |
|---|---|
| Date: | **3/7/2011** |
| Permit Type: | |
| Description: | **Plan Check pool/spa excavation** |
| Permit Description: | **Grading** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Grading/Hillside |
| Permit Number: | 110307000000942 |
| Status: | |
| Valuation: | $60.00 |
| Contractor Company: | |
| Contractor Name: | CALIFORNIA POOLS & SPAS |

| | |
|---|---|
| C.O. Issued Date: | **6/22/2011** |
| Date: | **3/7/2011** |
| Permit Type: | |
| Description: | **Plan Check Proposed new swimming pool/spa per standard plan# 266** |
| Permit Description: | **Swimming-Pool/Spa** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Suimming Pools/Spa |
| Permit Number: | 110477000000185 |
| Status: | |
| Valuation: | $24,000.00 |
| Contractor Company: | |
| Contractor Name: | CALIFORNIA POOLS & SPAS |

| | |
|---|---|
| Date: | **3/2/2000** |
| Permit Type: | |
| Description: | **No Plan Check NEW SERVICE** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 000414000003994 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | MADRIGAL GABRIEL CERDA |

# ADJOINING PROPERTY FINDINGS

| | |
|---|---|
| Date: | **10/27/1998** |
| Permit Type: | |
| Description: | **No Plan Check EQ RETROFIT (TO COMPLY W/DIV 92) PER LA CITY STD PLAN #1 PERMIT APPROV. BY ENG. CY** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 980164000023085 |
| Status: | |
| Valuation: | $800.00 |
| Contractor Company: | |
| Contractor Name: | MALANGA ANDREW A |

**1034 W 13TH ST**

| | |
|---|---|
| Date: | **9/8/2014** |
| Permit Type: | |
| Description: | **No Plan Check INSTALL 100 AMP SERVICE** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 140414000024499 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | K-ELECTRIC |

# ADJOINING PROPERTY FINDINGS

| | |
|---|---|
| Date: | **7/17/2001** |
| Permit Type: | |
| Description: | **Plan Check Correct address on permit 01016-40000-12735 to 1034 W. 13th St.** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 010164000112735 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | HURST SERVICE ROOFING COMPANY |

**1035 W 13TH ST**

| | |
|---|---|
| Date: | **5/4/1999** |
| Permit Type: | |
| Description: | **No Plan Check 100 AMP SERVICE CHANGE W/ 15-20AMP 7 CIRCUITS** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 990414000008203 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

# ADJOINING PROPERTY FINDINGS

**1042 W 13TH ST**

| | |
|---|---|
| Date: | **7/10/2001** |
| Permit Type: | |
| Description: | **No Plan Check T/O(E) & REROOF W/FIBERGLASS, COMP - 13SQS** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 010164000012735 |
| Status: | |
| Valuation: | $2,725.00 |
| Contractor Company: | |
| Contractor Name: | HURST SERVICE ROOFING COMPANY |

**1043 W 13TH ST**

| | |
|---|---|
| Date: | **7/13/1999** |
| Permit Type: | |
| Description: | **No Plan Check 100-amp service upgrade** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 990417000013485 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | MONTGOMERY DEWAYNE M |

# ADJOINING PROPERTY FINDINGS

| | |
|---|---|
| Date: | **10/22/1998** |
| Permit Type: | |
| Description: | **No Plan Check INSTALL FOUNDATION EXPANSION ANCHORS @ FOOTINGS TO COMPLY W/LA CITY STD PLAN #1** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 980164000022675 |
| Status: | |
| Valuation: | $800.00 |
| Contractor Company: | |
| Contractor Name: | MALANGA ANDREW A |

| | |
|---|---|
| Date: | **10/27/1997** |
| Permit Type: | |
| Description: | **No Plan Check T/O(E) & REROOF W/BLT UP HOT MOP - GAR ONLY 4SQS** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Private Garage |
| Permit Number: | 970164000024914 |
| Status: | |
| Valuation: | $800.00 |
| Contractor Company: | |
| Contractor Name: | HURST SERVICE ROOFING COMPANY |

# ADJOINING PROPERTY FINDINGS

**1049 W 13TH ST**

| | |
|---|---|
| Date: | **4/20/2004** |
| Permit Type: | |
| Description: | **No Plan Check gas shutoff valve installation** |
| Permit Description: | **Plumbing** |
| Work Class: | |
| Proposed Use: | Commercial |
| Permit Number: | 040429000011256 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | CALIFORNIA PLUMBING RETROFITTERS |

**1057 W 13TH ST**

| | |
|---|---|
| Date: | **6/5/2015** |
| Permit Type: | |
| Description: | **Plan Check Leveling foundation** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 150164000011755 |
| Status: | |
| Valuation: | $800.00 |
| Contractor Company: | |
| Contractor Name: | EXPRESS BATHROOMS AND KITCHENS |

# ADJOINING PROPERTY FINDINGS

Date: **11/15/2005**
Permit Type:
Description: **No Plan Check gas shut off valve**

Permit Description: **Plumbing**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 050429000028540
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: PLUMB-PRO

Date: **8/2/2005**
Permit Type:
Description: **No Plan Check PAPER AND NEW STUCCO OF HOUSE.**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: 1 or 2 Family Dwelling Single Family Residence
Permit Number: 050164000015882
Status:
Valuation: $8,000.00
Contractor Company:
Contractor Name: OWNER-BUILDER

**957 W 13TH ST**

Date: **8/31/2010**
Permit Type:
Description: **No Plan Check 100 AMP SERVICE UPGRADE NEW KITCHEN SUBPANEL**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 100414000017243
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: CHRISTMAS ELECTRIC COMPANY

# ADJOINING PROPERTY FINDINGS

**964 W 13TH ST**

| | |
|---|---|
| Date: | **3/13/2008** |
| Permit Type: | |
| Description: | **No Plan Check upgrade service to 200amp , install four circuits** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 080419000005621 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | R M ELECTRIC SERVICE INC |

| | |
|---|---|
| Date: | **10/25/2004** |
| Permit Type: | |
| Description: | **No Plan Check install earthquake valve and bracket** |
| Permit Description: | **Plumbing** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 040429000030773 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | SOUZA PLUMBING |

# ADJOINING PROPERTY FINDINGS

**965 W 13TH ST**

| | |
|---|---|
| Date: | **10/29/2004** |
| Permit Type: | |
| Description: | **No Plan Check INSTALL SMOKE DET.** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 040414000027272 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | K-ELECTRIC |

**967 W 13TH ST**

| | |
|---|---|
| Date: | **11/10/2004** |
| Permit Type: | |
| Description: | **No Plan Check NEW 100 AMP SERVICE** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 040414000028222 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | HARBOR ELECTRIC |

# ADJOINING PROPERTY FINDINGS

**971 W 13TH ST**

| | |
|---|---|
| Date: | **7/27/1998** |
| Permit Type: | |
| Description: | **No Plan Check PERMIT APPROVED BY ENG. CY** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | Commercial |
| Permit Number: | 980414000015787 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | IVAN ELECTRIC |

**975 W 13TH ST**

| | |
|---|---|
| Date: | **9/15/2004** |
| Permit Type: | |
| Description: | **No Plan Check INSTALL SMOKE DET. 2- IN 975 AND 1-IN 977** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | Apartment |
| Permit Number: | 040414000023236 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | IVAN ELECTRIC |

# ADJOINING PROPERTY FINDINGS

**978 W 13TH ST**

| | |
|---|---|
| Date: | **3/31/2004** |
| Permit Type: | |
| Description: | **No Plan Check REPLACE (2) WINDOWS. SAME SIZE, TYPE & LOCATION** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 040164000005931 |
| Status: | |
| Valuation: | $500.00 |
| Contractor Company: | |
| Contractor Name: | K-DESIGNERS |

| | |
|---|---|
| Date: | **9/11/2002** |
| Permit Type: | |
| Description: | **No Plan Check UPGRADE SERVICE** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 020414000020066 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | BB ELECTRIC |

# ADJOINING PROPERTY FINDINGS

**983 W 13TH ST**

| | |
|---|---|
| Date: | **11/5/2004** |
| Permit Type: | |
| Description: | **No Plan Check INSTALL FUSES AND SMOKE DET.** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 040414000027777 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | R M ELECTRIC SERVICE |

**985 W 13TH ST**

| | |
|---|---|
| Date: | **11/5/2004** |
| Permit Type: | |
| Description: | **No Plan Check REPLACE SERVICE ENTRANCE WIRES ADD FUSES AND SMOKE DET.** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 040414000027778 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | R M ELECTRIC SERVICE |

# ADJOINING PROPERTY FINDINGS

**989 W 13TH ST**

| | |
|---|---|
| Date: | **11/9/2004** |
| Permit Type: | |
| Description: | **No Plan Check WALL HEATER** |
| Permit Description: | **HVAC** |
| Work Class: | |
| Proposed Use: | Apartment |
| Permit Number: | 040444000011407 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | B & B PLUMBING |

| | |
|---|---|
| Date: | **10/24/2004** |
| Permit Type: | |
| Description: | **No Plan Check replace exposed service entrance conductors, install proper fuses for panel, permit sub panel installed as per code enf.** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 040419000026759 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | R M ELECTRIC SERVICE |

# ADJOINING PROPERTY FINDINGS

Date: **12/6/2002**
Permit Type:
Description: **No Plan Check eq valve**

Permit Description: **Plumbing**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 020429000037989
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: STRUHS COMPANY

**W 14TH ST**

**1022 W 14TH ST**

Date: **2/20/2002**
Permit Type:
Description: **No Plan Check installation of earthquake valve.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 020421000003536
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: PRC MECHANICAL

# ADJOINING PROPERTY FINDINGS

**1026 W 14TH ST**

| | |
|---|---|
| Date: | **11/2/2009** |
| Permit Type: | |
| Description: | **No Plan Check HOUSE TEAR OFF EXISTING ROOF, REPLACE ANY ROTTED WOOD IF NEEDED. NAIL ONE LAYER OF #30 LB. BASE SHEET. INSTALL 30 YRS. COMPOSITION SHINGLES. (28 SQUARES)** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 090164000017916 |
| Status: | |
| Valuation: | $6,000.00 |
| Contractor Company: | |
| Contractor Name: | DEHONOR ROOFING |

**1027 W 14TH ST**

| | |
|---|---|
| Date: | **11/23/1998** |
| Permit Type: | |
| Description: | **No Plan Check GEN. REHAB; INSTALL SLIDING DOOR AT (E) WINDOW (SAME WIDTH) REPLACE HEATER, NEW PANEL FOR WASHER DRYER. INCLUDE ELECT, PLUMB & HEATING** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 980164000025360 |
| Status: | |
| Valuation: | $5,000.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

# ADJOINING PROPERTY FINDINGS

**1035 W 14TH ST**

| | |
|---|---|
| Date: | **1/6/2016** |
| Permit Type: | |
| Description: | **No Plan Check Add sill plate anchors bolts and crippl wall plywood per L.A. City Std. Plan #1; no foundation replacement (EQ hazard reduction per Chapter 92).** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 160169000000209 |
| Status: | |
| Valuation: | $2,500.00 |
| Contractor Company: | |
| Contractor Name: | ANCHORSTRONG CONSTRUCTION INC |

| | |
|---|---|
| Date: | **7/28/2015** |
| Permit Type: | |
| Description: | **No Plan Check Reroof with 20 sqrs BUILT UP roofing. E isting solid sheathing. Re-roof with Class A or B material weighing less than 6 pounds per sq. ft. For residential roof replacement > 50% of the total roof area, apply Cool Roof Product labeled and certified by Cool Roof Rating Council (CRRC). Cool Roof may be required for non-residential buildings per Title 24, Part 6, Section 149(b).** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 150169000015733 |
| Status: | |
| Valuation: | $4,000.00 |
| Contractor Company: | |
| Contractor Name: | PAYNE PAUL ROOFING |

# ADJOINING PROPERTY FINDINGS

Date: **1/16/2002**
Permit Type:
Description: **No Plan Check UPGRADE SERVICE**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 020414000001011
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: OWNER-BUILDER

**1036 W 14TH ST**

Date: **12/13/2004**
Permit Type:
Description: **No Plan Check SMOKE DETECTORS**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 040414000030914
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: C S ELECTRIC

# ADJOINING PROPERTY FINDINGS

**1043 W 14TH ST**

| | |
|---|---|
| Date: | **9/18/2000** |
| Permit Type: | |
| Description: | **No Plan Check REPLACE 100AMP SERVICE** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 000414000019113 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

**1048 W 14TH ST**

| | |
|---|---|
| Date: | **3/9/2004** |
| Permit Type: | |
| Description: | **No Plan Check LIGHTS ON BLOCK WALL "COMPLY W/DEPT ORDER EFFECT. DATE 2/19/04. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE."** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 040414000005656 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

# ADJOINING PROPERTY FINDINGS

Date: **5/20/2003**
Permit Type:
Description: **No Plan Check EQ VALVE**

Permit Description: **Plumbing**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 030424000016055
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: OWNER-BUILDER

**1049 W 14TH ST**

Date: **10/28/2015**
Permit Type:
Description: **Plan Check PROPOSED 2-CAR GARAGE.**

Permit Description: **Bldg-New**
Work Class:
Proposed Use: 1 or 2 Family Dwelling Private Garage
Permit Number: 150107000001457
Status:
Valuation: $17,820.00
Contractor Company:
Contractor Name: OWNER-BUILDER

# ADJOINING PROPERTY FINDINGS

| | |
|---|---|
| Date: | **10/28/2015** |
| Permit Type: | |
| Description: | **Plan Check PROPOSED 830 SQ FT ADDITION & (N) 188 S FT PATIO COVER AT REAR OF (E) SINGLE FAMILY DWELLING.** |
| Permit Description: | **Bldg-Addition** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 150147000001696 |
| Status: | |
| Valuation: | $87,180.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

| | |
|---|---|
| Date: | **5/16/2012** |
| Permit Type: | |
| Description: | **No Plan Check CHANGE OUT 10 WINDOWS (SAME SIZE & TYPE FOR RESIDENTIAL BUILDINGS ONLY).** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 120164000009487 |
| Status: | |
| Valuation: | $1,400.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

# ADJOINING PROPERTY FINDINGS

| | |
|---|---|
| Date: | **3/10/1997** |
| Permit Type: | |
| Description: | **Plan Check remove wood shingles and replacae with 1/2" plywood and compo shingles 12 squares of roofing** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 970164000005405 |
| Status: | |
| Valuation: | $2,400.00 |
| Contractor Company: | |
| Contractor Name: | |

**1057 W 14TH ST**

| | |
|---|---|
| Date: | **6/28/2002** |
| Permit Type: | |
| Description: | **No Plan Check change out dishwasher** |
| Permit Description: | **Plumbing** |
| Work Class: | |
| Proposed Use: | Commercial |
| Permit Number: | 020429000018225 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | APPLIANCE INSTALLERS |

# ADJOINING PROPERTY FINDINGS

**1065 W 14TH ST**

| | |
|---|---|
| Date: | **10/24/2000** |
| Permit Type: | |
| Description: | **No Plan Check complete work on 98010-40000-02621(90% complete)** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 980104000102621 |
| Status: | |
| Valuation: | $1,100.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

| | |
|---|---|
| Date: | **4/15/1999** |
| Permit Type: | |
| Description: | **Plan Check 1 story addition new dwelling unit (24'x30') to (E) SFD to create new duplex. Proposed living area 621 SF. Type V-N. Combined permit.** |
| Permit Description: | **Bldg-Addition** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence Duplex |
| Permit Number: | 980144000006787 |
| Status: | |
| Valuation: | $46,000.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

# ADJOINING PROPERTY FINDINGS

| | |
|---|---|
| Date: | **8/28/1998** |
| Permit Type: | |
| Description: | **Plan Check new 19'x25' detached garage per type V sheet** |
| Permit Description: | **Bldg-New** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Private Garage |
| Permit Number: | 980104000002621 |
| Status: | |
| Valuation: | $11,000.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

| | |
|---|---|
| Date: | **8/28/1998** |
| Permit Type: | |
| Description: | **No Plan Check demo 19'x25' detached garage(475sq.ft.)** |
| Permit Description: | **Bldg-Demolition** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Private Garage Misc. Bldg or Structure |
| Permit Number: | 980194000000950 |
| Status: | |
| Valuation: | $1,400.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

# ADJOINING PROPERTY FINDINGS

**1073 W 14TH ST**

| | |
|---|---|
| Date: | **9/29/2004** |
| Permit Type: | |
| Description: | **No Plan Check ANCHOR BOLTING/BRACING FOUNDATION PER LA STANDARD PLAN** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 040164000019377 |
| Status: | |
| Valuation: | $3,000.00 |
| Contractor Company: | |
| Contractor Name: | STUTZEL ROBERT A CONSTRUCTION |

| | |
|---|---|
| Date: | **9/3/2004** |
| Permit Type: | |
| Description: | **No Plan Check gas shut off valve** |
| Permit Description: | **Plumbing** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 040429000025810 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | PLUMB-PRO |

# ADJOINING PROPERTY FINDINGS

**942 W 14TH ST**

| | |
|---|---|
| Date: | **2/10/2014** |
| Permit Type: | |
| Description: | **No Plan Check ADD SILL PLATE ANCHOR BOLTS & CRIPPLE W LL PLYWOOD AND REPLACE FOUNDATION PER LA CITY STANDARD PLAN #1. (EQ HAZARD REDUCTION PER CHAPTER 92 OF THE LA BLDG.CODE-HOUSES & RESIDENTIAL BLDGS UP TO 3 STORIES AND UP TO 4 UNITS.** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 140163000002487 |
| Status: | |
| Valuation: | $8,200.00 |
| Contractor Company: | |
| Contractor Name: | JULIAN CONSTRUCTION INC |

| | |
|---|---|
| Date: | **10/24/2007** |
| Permit Type: | |
| Description: | **No Plan Check UPGRADE ELECTRICAL PANEL TO 200 AMPS** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 070414000025853 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

# ADJOINING PROPERTY FINDINGS

**964 W 14TH ST**

| | |
|---|---|
| Date: | **11/14/2002** |
| Permit Type: | |
| Description: | **No Plan Check Automatic earthquake gas shut-off valve. Valve located under steps to front entrance.** |
| Permit Description: | **Plumbing** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 020429000035418 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | DOM'S PLUMBING |

**W 15TH ST**

**1004 W 15TH ST**

| | |
|---|---|
| Date: | **5/4/2001** |
| Permit Type: | |
| Description: | **Plan Check Repair water damage (E) deck in front (23'4"x14') and new trellis, rewire (E) lighting and gas line.** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 010164000007938 |
| Status: | |
| Valuation: | $33,000.00 |
| Contractor Company: | |
| Contractor Name: | PRODAN CONSTRUCTION |

# ADJOINING PROPERTY FINDINGS

**1022 W 15TH ST**

| | |
|---|---|
| Date: | **8/20/2004** |
| Permit Type: | |
| Description: | **No Plan Check T/O(E) & REROOF W/1/2" OSB, PLYWOOD, COMP - SFD - 15SQS & DET GAR - 3SQS** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 040164000016431 |
| Status: | |
| Valuation: | $5,400.00 |
| Contractor Company: | |
| Contractor Name: | AVALON ROOFING |

| | |
|---|---|
| Date: | **8/18/2004** |
| Permit Type: | |
| Description: | **No Plan Check REPLACE SEWER LINE FROM HOUSE TO PROPERTY LINE** |
| Permit Description: | **Plumbing** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 040424000024062 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

# ADJOINING PROPERTY FINDINGS

Date: **6/23/2003**
Permit Type:
Description: **No Plan Check EQ VALVE**

Permit Description: **Plumbing**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 030424000019859
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: PLUMB-PRO

**1024 W 15TH ST**

Date: **12/17/2004**
Permit Type:
Description: **No Plan Check T/O AND REROOF COMP. SHING.**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: 1 or 2 Family Dwelling Single Family Residence
Permit Number: 040164000024805
Status:
Valuation: $4,100.00
Contractor Company:
Contractor Name: BAY HARBOR ROOFING

# ADJOINING PROPERTY FINDINGS

**1056 W 15TH ST**

| | |
|---|---|
| Date: | **4/12/2013** |
| Permit Type: | |
| Description: | **No Plan Check REPLACE DRYWALL IN UNITS 1,3&4 ABOVE HEA TER (NO NEW WALLS ADDED)** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | Apartment Apartment |
| Permit Number: | 130164000007277 |
| Status: | |
| Valuation: | $560.00 |
| Contractor Company: | |
| Contractor Name: | SAN PEDRO PLUMBING |

| | |
|---|---|
| Date: | **4/12/2013** |
| Permit Type: | |
| Description: | **No Plan Check RE-WIRE FOR CEILING FAN IN UNITS 1&3, IN STALL SMOKE DET. IN UNITS 1-4 AND INSTALL 1-ELECT. HEATER IN UNIT #3** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | Apartment |
| Permit Number: | 130414000009526 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | SAN PEDRO PLUMBING |

# ADJOINING PROPERTY FINDINGS

| | |
|---|---|
| Date: | **2/28/2013** |
| Permit Type: | |
| Description: | **No Plan Check INSTALL 5 HEATERS, 2 IN UNIT #1, 2 IN UN IT #3 AND 1 IN UNIT #4** |
| Permit Description: | **HVAC** |
| Work Class: | |
| Proposed Use: | Apartment |
| Permit Number: | 130444000002174 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | SAN PEDRO PLUMBING |

| | |
|---|---|
| Date: | **8/19/2009** |
| Permit Type: | |
| Description: | **No Plan Check Water damage repair for residential building only (maximum 10% of replacement cost of building). Units 1, 2 & 4. Valuation to be verified by field inspector** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | Apartment Apartment |
| Permit Number: | 090162000012792 |
| Status: | |
| Valuation: | $4,300.00 |
| Contractor Company: | |
| Contractor Name: | SOMERSET GENERAL BUILDERS AND RESTORATION CONTRACTORS |

# ADJOINING PROPERTY FINDINGS

| | |
|---|---|
| Date: | **8/19/2009** |
| Permit Type: | |
| Description: | **No Plan Check REPLACE WASTE LINE (LEAKING) IN UNIT 4, REPLACE KITCHEN SINK IN #2** |
| Permit Description: | **Plumbing** |
| Work Class: | |
| Proposed Use: | Apartment |
| Permit Number: | 090422000014317 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | SOMERSET GENERAL BUILDERS AND RESTORATION CONTRACTORS |

| | |
|---|---|
| Date: | **2/22/2005** |
| Permit Type: | |
| Description: | **No Plan Check TROUBLESHOOTING THE PLUGS.** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | Apartment |
| Permit Number: | 050413000003893 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | SALEHPOUR H |

| | |
|---|---|
| Date: | **2/22/2005** |
| Permit Type: | |
| Description: | **No Plan Check COPPER REPIPE.** |
| Permit Description: | **Plumbing** |
| Work Class: | |
| Proposed Use: | Apartment |
| Permit Number: | 050423000004391 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | SALEHPOUR H |

# ADJOINING PROPERTY FINDINGS

**1072 W 15TH ST**

| | |
|---|---|
| Date: | **5/28/2013** |
| Permit Type: | |
| Description: | **No Plan Check REPLACE DAMAGED BUSS BAR IN MAIN SERVICE PANEL** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | Apartment |
| Permit Number: | 130414000013813 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | R M ELECTRIC SERVICE INC |

| | |
|---|---|
| Date: | **6/6/2012** |
| Permit Type: | |
| Description: | **No Plan Check Reroof with 37 sqrs COMP SHINGLE roofing . Existing solid sheathing.** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | Apartment |
| Permit Number: | 120169000011137 |
| Status: | |
| Valuation: | $7,400.00 |
| Contractor Company: | |
| Contractor Name: | CROSS WARREN ROOFING INC |

# ADJOINING PROPERTY FINDINGS

| | |
|---|---|
| Date: | **5/21/2009** |
| Permit Type: | |
| Description: | **No Plan Check INCREASE SUB PANEL** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | Apartment |
| Permit Number: | 090414000009341 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | FIAMENGO ELECTRIC |

| | |
|---|---|
| Date: | **5/6/2009** |
| Permit Type: | |
| Description: | **No Plan Check CHANGING SMALL SUB PANEL TO LARGER SUB PANEL AND RUNNING POWER FOR JACUZZI OUTSIDE** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | Apartment |
| Permit Number: | 090414000008227 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | FIAMENGO ELECTRIC |

| | |
|---|---|
| Date: | **8/19/2003** |
| Permit Type: | |
| Description: | **No Plan Check INSTALL EQ VALVE** |
| Permit Description: | **Plumbing** |
| Work Class: | |
| Proposed Use: | Apartment |
| Permit Number: | 030424000026379 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | ROMO PLUMBING |

# ADJOINING PROPERTY FINDINGS

Date: **5/8/2003**
Permit Type:
Description: **No Plan Check INSTALL 1 EQ VALVE**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 030429000014706
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: STANDARD PLUMBING

Date: **8/26/2002**
Permit Type:
Description: **No Plan Check install one eq valve**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 020429000025391
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: STANDARD PLUMBING

Date: **1/15/2002**
Permit Type:
Description: **No Plan Check INSTALL EQ VALVE**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 020424000000181
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ALLEN PLUMBING & PIPING

# ADJOINING PROPERTY FINDINGS

**W 15TH ST APT 1 # 3**

**1064 W 15TH ST APT 1 # 3**

| | |
|---|---|
| Date: | **1/26/2016** |
| Permit Type: | |
| Description: | **No Plan Check** |
| Permit Description: | **HVAC** |
| Work Class: | |
| Proposed Use: | Apartment |
| Permit Number: | 150444000108844 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | GOMEZ HEATING & AIR CONDITIONING INC |

| | |
|---|---|
| Date: | **9/28/2009** |
| Permit Type: | |
| Description: | **No Plan Check C/O FAU ADD A/C** |
| Permit Description: | **HVAC** |
| Work Class: | |
| Proposed Use: | Apartment |
| Permit Number: | 090444000008857 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | A C XPERTS HEATING & AIR CONDITIONING |

# ADJOINING PROPERTY FINDINGS

| | |
|---|---|
| Date: | **5/17/2007** |
| Permit Type: | |
| Description: | **No Plan Check replace hot water heater, 40 gal gas** |
| Permit Description: | **Plumbing** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 070429000010952 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | PLUMB - IN - TIME PLUMBING SERVICES INC |

| | |
|---|---|
| Date: | **10/28/2003** |
| Permit Type: | |
| Description: | **No Plan Check INSTALL 2 EQ VALVES** |
| Permit Description: | **Plumbing** |
| Work Class: | |
| Proposed Use: | Apartment |
| Permit Number: | 030424000033988 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | R C PLUMBING |

# ADJOINING PROPERTY FINDINGS

**W 17TH ST**

**1003 W 17TH ST**

| | |
|---|---|
| Date: | **5/29/1998** |
| Permit Type: | |
| Description: | **No Plan Check t/o, reroof with comp. shingles, 30 sqs.** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | Apartment Apartment |
| Permit Number: | 980164000010292 |
| Status: | |
| Valuation: | $6,000.00 |
| Contractor Company: | |
| Contractor Name: | DEHONOR ROOFING |

**1021 W 17TH ST**

| | |
|---|---|
| Date: | **12/30/2004** |
| Permit Type: | |
| Description: | **No Plan Check REPAIR HANDRAIL TO 1021 AND REPAIR DECK TO 1023 (WORK LESS THAN 10% TO BE VERIFIED BY INSPECTOR)** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Duplex |
| Permit Number: | 040164000025412 |
| Status: | |
| Valuation: | $500.00 |
| Contractor Company: | |
| Contractor Name: | WEEDEN DAVID GENERAL CONTRACTOR |

# ADJOINING PROPERTY FINDINGS

Date: **12/30/2004**
Permit Type:
Description: **No Plan Check INSTALL SMOKE DET. IN UNIT 1023**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 040414000032241
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: WEEDEN DAVID GENERAL CONTRACTOR

Date: **4/15/2002**
Permit Type:
Description: **No Plan Check SMOKE DETECTORS**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 020414000007794
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: K-ELECTRIC

**1025 W 17TH ST**

Date: **12/30/2004**
Permit Type:
Description: **No Plan Check INSTALL SMOKE DET.**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 040414000032240
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: WEEDEN DAVID GENERAL CONTRACTOR

# ADJOINING PROPERTY FINDINGS

**1029 W 17TH ST**

| | |
|---|---|
| Date: | **9/5/2006** |
| Permit Type: | |
| Description: | **No Plan Check REMOVE TILE. PUT NEW UNDERLAYMENT & REINSTALL TILE.** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 060164000017533 |
| Status: | |
| Valuation: | $8,000.00 |
| Contractor Company: | |
| Contractor Name: | JOHNSON CHARLES ROOFING INC |

**1035 W 17TH ST**

| | |
|---|---|
| Date: | **3/21/2005** |
| Permit Type: | |
| Description: | **No Plan Check SUPPLEMENTAL TO 04041 90000 29667 FOR NEW CIRCUITS & SUBPANEL** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 040414000129667 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

# ADJOINING PROPERTY FINDINGS

| | |
|---|---|
| Date: | **11/29/2004** |
| Permit Type: | |
| Description: | **No Plan Check upgrading electrical box from an old fuse electrical box to a new breaker box and new wiring throughout the house** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 040419000029667 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

| | |
|---|---|
| Date: | **10/12/2004** |
| Permit Type: | |
| Description: | **No Plan Check T/O(E) TILE & REROOF W/SAME - 15SQS** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 040164000020236 |
| Status: | |
| Valuation: | $6,000.00 |
| Contractor Company: | |
| Contractor Name: | A H R BUILDERS |

| | |
|---|---|
| Date: | **5/24/2002** |
| Permit Type: | |
| Description: | **No Plan Check EQ VALVE** |
| Permit Description: | **Plumbing** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 020424000014158 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

# ADJOINING PROPERTY FINDINGS

**1041 W 17TH ST**

| | |
|---|---|
| Date: | **7/12/2013** |
| Permit Type: | |
| Description: | **No Plan Check EARTHQUAKE SHUT-OFF GAS SHUT-OFF VALVE** |
| Permit Description: | **Plumbing** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 130424000013473 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

| | |
|---|---|
| Date: | **5/1/2009** |
| Permit Type: | |
| Description: | **No Plan Check SWAP OUT OLD ELECTRICAL FUSE BOX WITH NEW 100 WATT BOX** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 090414000007938 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

# ADJOINING PROPERTY FINDINGS

| | |
|---|---|
| Date: | **7/8/2008** |
| Permit Type: | |
| Description: | **No Plan Check TEAR OFF EXISTING ROOFING. RE-ROOF WITH 1/2" CDX PLYWOOD (2 INSP. REQ'D). INSTALL FIBERGLASS OR ASPHALT SHINGLES (MAX. 2 OVERLAYS).** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 080164000011461 |
| Status: | |
| Valuation: | $5,000.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

**959 W 17TH ST**

| | |
|---|---|
| Date: | **7/24/2008** |
| Permit Type: | |
| Description: | **No Plan Check Install new 2-gang (200AMP) meter and subpanel.** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 080417000016795 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | POWER TEK ELECTRIC |

# ADJOINING PROPERTY FINDINGS

| | |
|---|---|
| Date: | **7/24/2008** |
| Permit Type: | |
| Description: | **No Plan Check Install new subpanel (100 AMP) for 2-gang service @ 959 W. 17th Street.** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 080417000016796 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | POWER TEK ELECTRIC |

| | |
|---|---|
| Date: | **1/7/2005** |
| Permit Type: | |
| Description: | **No Plan Check REPLACE WATER HEATER** |
| Permit Description: | **Plumbing** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 050424000000476 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | FER PETE & SON PLUMBING AND SUPPLY |

# ADJOINING PROPERTY FINDINGS

**965 W 17TH ST**

| | |
|---|---|
| Date: | **3/12/2008** |
| Permit Type: | |
| Description: | **No Plan Check T/O EXISTING SHINGLE ROOF AND REPLACE WITH 30 YR. GAF ASPHALT SHINGLE ROOF TO 1 STORY HOUSE ONLY.** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling Single Family Residence |
| Permit Number: | 080164000004112 |
| Status: | |
| Valuation: | $4,560.00 |
| Contractor Company: | |
| Contractor Name: | HDI ROOFING |

**975 W 17TH ST**

| | |
|---|---|
| Date: | **5/29/1998** |
| Permit Type: | |
| Description: | **No Plan Check t/o, reroof with comp. shingles, 25sqs.** |
| Permit Description: | **Bldg-Alter/Repair** |
| Work Class: | |
| Proposed Use: | Apartment Apartment |
| Permit Number: | 980164000010290 |
| Status: | |
| Valuation: | $5,000.00 |
| Contractor Company: | |
| Contractor Name: | DEHONOR ROOFING |

# ADJOINING PROPERTY FINDINGS

**W 17TH ST # PV1**

**1055 W 17TH ST # PV1**

| | |
|---|---|
| Date: | **12/16/2011** |
| Permit Type: | |
| Description: | **No Plan Check PHOTOVOLTAIC INSTALLATION. (1.71KW - 9 PANELS AND 1 INVERTER) Solar device(s)is/are roof mounted and do not exceed the existing building height at the highest point.** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 110411000026892 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | PROGRESSIVE POWER GROUP INC |

| | |
|---|---|
| Date: | **3/30/2004** |
| Permit Type: | |
| Description: | **No Plan Check NEW ELECTRICAL PANEL** |
| Permit Description: | **Electrical** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 040414000007562 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | OWNER-BUILDER |

# ADJOINING PROPERTY FINDINGS

| | |
|---|---|
| Date: | **7/28/2003** |
| Permit Type: | |
| Description: | **No Plan Check EQ VALVE** |
| | |
| Permit Description: | **Plumbing** |
| Work Class: | |
| Proposed Use: | 1 or 2 Family Dwelling |
| Permit Number: | 030424000023830 |
| Status: | |
| Valuation: | $0.00 |
| Contractor Company: | |
| Contractor Name: | PLUMB-PRO |

# GLOSSARY

**General Building Department concepts**

- **ICC:** The International Code Council. The governing body for the building/development codes used by all jurisdictions who've adopted the ICC guidelines. MOST of the US has done this. Canada, Mexico, and other countries use ICC codes books and guides as well. There are a few states who have added guidelines to the ICC codes to better fit their needs. For example, California has added seismic retrofit requirements for most commercial structures.
- **Building Department (Permitting Authority, Building Codes, Inspections Department, Building and Inspections):** This is the department in a jurisdiction where an owner or contractor goes to obtain permits and inspections for building, tearing down, remodeling, adding to, re-roofing, moving or otherwise making changes to any structure, Residential or Commercial.
- **Jurisdiction:** This is the geographic area representing the properties over which a Permitting Authority has responsibility.
- **GC:** General Contractor. Usually the primary contractor hired for any Residential or Commercial construction work.
- **Sub:** Subordinate contracting companies or subcontractors. Usually a "trades" contractor working for the GC. These contractors generally have an area of expertise in which they are licensed like Plumbing, Electrical, Heating and Air systems, Gas Systems, Pools etc. (called "trades").
- **Journeymen:** Sub contractors who have their own personal licenses in one or more trades and work for different contracting companies, wherever they are needed or there is work.
- **HVAC (Mechanical, Heating & Air companies):** HVAC = Heating, Ventilation, and Air Conditioning.
- **ELEC (Electrical, TempPole, TPole, TPower, Temporary Power, Panel, AMP Change, Power Release):** Electrical permits can be pulled for many reasons. The most common reason is to increase the AMPs of power in an electrical power panel. This requires a permit in almost every jurisdiction. Other commons reason for Electrical permits is to insert a temporary power pole at a new construction site. Construction requires electricity, and in a new development, power has yet to be run to the lot. The temporary power pole is usually the very first permit pulled for new development. The power is released to the home owner when construction is complete and this sometimes takes the form of a Power Release permit or inspection.
- **"Pull" a permit:** To obtain and pay for a building permit.
- **CBO:** Chief Building Official
- **Planning Department:** The department in the development process where the building /structural plans are reviewed for their completeness and compliance with building codes
- **Zoning Department:** The department in the development process where the site plans are reviewed for their compliance with the regulations associated with the zoning district in which they are situated.
- **Zoning District:** A pre-determined geographic boundary within a jurisdiction where certain types of structures are permitted / prohibited. Examples are Residential structure, Commercial/Retail structures, Industrial/Manufacturing structures etc. Each zoning district has regulations associated with it like the sizes of the lots, the density of the structures on the lots, the number of parking spaces required for certain types of structures on the lots etc.
- **PIN (TMS, GIS ID, Parcel#):** Property Identification Number and Tax Map System number.
- **State Card (Business license):** A license card issued to a contractor to conduct business.
- **Building Inspector (Inspector):** The inspector is a building department employee that inspects building construction for compliance to codes.
- **C.O.:** Certificate of Occupancy. This is the end of the construction process and designates that the owners now have permission to occupy a structure after its building is complete. Sometimes also referred to as a Certificate of Compliance.

# GLOSSARY

**Permit Content Definitions**

- Permit Number: The alphanumerical designation assigned to a permit for tracking within the building department system. Sometimes the permit number gives clues to its role, e.g. a "PL" prefix may designate a plumbing permit.
- Description: A field on the permit form that allows the building department to give a brief description of the work being done. More often than not, this is the most important field for EP's to find clues to the prior use(s) of the property.
- Permit Type: Generally a brief designation of the type of job being done. For example BLDG-RES, BLDG-COM, ELEC, MECH etc.

**Sample Building Permit Data**

Date: Nov 09, 2000
Permit Type: Bldg -
New Permit Number: 101000000405
Status: Valuation: $1,000,000.00
Contractor Company: OWNER-BUILDER
Contractor Name:

Description: New one store retail (SAV-ON) with drive-thru pharmacy. Certificate of Occupancy.

# APPENDIX H

# SCHOOL SITE ENVIRONMENTAL SCREENING CRITERIA CHECKLIST

# School Site Environmental Screening Criteria Checklist

| Health and Safety Criteria | Yes | No | Comments |
|---|---|---|---|
| **High-voltage Power Transmission Lines** ***[CCR, Title 5, 14010; CDE Selection and Approval Guide, 2000]*** | | | |
| Is the San Pedro High School within 100 feet from the edge of an easement for a 50-133 kV line? | ☐ | ☐ | CSC contacted the City of Los Angeles Department of Water and Power ("DWP"). **No response has been received as of the date of this Phase I ESA Report.** There are DPW owned and operated transformers on the south side of Small Gym facing 17th Street. There are decommissioned DWP transformers in an electrical vault in the basement of the Administration Building |
| Is the San Pedro High School within 150 feet from the edge of an easement for a 220-230 kV line? | | | |
| Is the site within 350 feet from the edge of an easement for a 500-550 kV line? | | | |
| **Railroads** ***[CCR, Title 5, 14010; CDE Selection and Approval Guide, 2000]*** | | | |
| Is the San Pedro High School within 1,500 feet of a railroad track easement? (If yes, is the track a main line or a spur?) | ☐ | ☒ | Based on the historic data review, there are no past or current railroad lines within one mile of the Subject Property. |
| **Hazardous Disposal Sites** ***[Edu. Code 17213(a)(1)-(3); Health and Safety Code 25220; CDE Selection and Approval Guide, 2000]*** | | | |
| Is the San Pedro High School a current or former hazardous or solid waste disposal site? (If yes, have all wastes been removed?) | ☐ | ☒ | Per EDR report. |
| Does the San Pedro High School Facility site contain one or more aboveground or underground pipeline(s) that carry hazardous substances, materials, or waste? (Natural gas supply to school or neighborhood excluded.) | ☐ | ☒ | There are no oil or gas pipelines on the Subject Property (EDR Radius Map Report and Site Reconnaissance).<br><br>CSC contacted the Office of the State Fire Marshall, Pipeline Safety Division. Lisa Dowdy responded that there are no pipelines jurisdictional to the State Fire Marshall in the vicinity of the Subject Property. |
| **Health and Safety Criteria** | **Yes** | **No** | **Comments** |
| Is the San Pedro High School located near or downwind from a stockyard, fertilizer plant, soil processing operation, auto dismantling facility, sewage treatment plant, or potentially hazardous facilities? | ☐ | ☒ | Per EDR report and Site Reconnaissance. |
| Has the San Pedro High School been designated a border zone property by DTSC, or is the Subject Property within 2,000 feet of a significant disposal of hazardous waste? | | ☒ | Per EDR report and City of Los Angeles ZIMAS report. |
| **Gasoline or Sewer Pipelines** ***[Edu. Code 17213(a)(3)]*** | | | |
| Are there any pipelines located above or underground on or near to the Olive Vista Middle School site that are used for hazardous substances, fuel, or natural gas? (Natural gas supply to school or neighborhood excluded.) | ☐ | ☒ | CSC contacted the Office of the State Fire Marshall, Pipeline Safety Division. Lisa Dowdy responded that there are no pipelines jurisdictional to the State Fire Marshall in the vicinity of the Subject Property. |

# School Site Environmental Screening Criteria Checklist (Continued)

| | | | |
|---|---|---|---|
| **Airports** ***[Edu. Code 17213(a)-(e); CCR, Title 5, 14011(k)]*** | | | |
| Is the San Pedro High School located within two nautical miles of an operating airport? | ☐ | ☒ | Per Thomas Guide, site reconnaissance, ZIMAS and topographic maps, there are no operating airports within two nautical miles of the Subject Property. There is a heliport located approximately one mile northwest of the Subject Property. |
| **Health and Safety Criteria** | **Yes** | **No** | **Comments** |
| **High-Pressure Water Pipelines, Reservoirs, Water or Fuel Storage Tanks** *[CDE Selection and Approval Guide, 2000]* | | | |
| Is the San Pedro High School located within 1,500 feet of the easement of an aboveground or underground water pipeline(s), reservoir or water or fuel storage tank? | ☐ | ☒ | Per EDR Historical Reports, EDR Radius Report and Site Reconnaissance. |
| **Health and Safety Criteria** | **Yes** | **No** | **Comments** |
| **Major Roadways** *[CCR, Title 5, 14010(e); CDE Selection and Approval Guide, 2000]* | | | |
| Is the San Pedro High School located near a highway, freeway, or other major roadway? (If yes, how far?) | ☐ | ☒ | Per EDR Report and Site Reconnaissance. Subject Property is in a residential area. |
| **Geological Special Studies Zone** *[Edu. Code 17212, 17212.5; Gov. Code 65302; CCR, Title 5, 14010; CDE Selection and Approval Guide, 2000]* | | | |
| Is San Pedro High School located within an Alquist-Priolo Act special studies zone? | ☐ | ☒ | The Subject Property is not located within an Alquist-Priolo Act special studies zone. The Subject Property is not located within a seismic hazard zone for liquefaction (ZIMAS 2016) |
| **Flood and Inundation** *[Edu. Code 17212, 17212.5; CCR, Title 5, 14010]* | | | |
| Is the proposed school Olive Vista Middle School site located within an area of flood or dam flood inundation? | ☐ | ☒ | The Subject Property is not located within a 100-year or 500-year flood zone (EDR, 2007, ZIMAS 2014). |
| **Border Zone Property** *[CCR, Title 5, 14010(t)]* | | | |
| Is San Pedro High School site located within 2,000 feet of a significant disposal of hazardous waste? | ☐ | ☒ | Per EDR report, ZIMAS 2016, DTSC Envirostor Database |

# APPENDIX I

# REFERENCES

## APPENDIX I – REFERENCES

CSC Project Number 4007573
Phase I Environmental Site Assessment
San Pedro High School
APN 7458-024-918
1001 West 15th Street
San Pedro, California 90731


County of Los Angeles Assessor's Office, Property Assessment Information System, [http://assessormap.co.la.ca.us/web].

*EDR Aerial Photo Decade Package*, 1001 W 15th Street, San Pedro, California 90731, Inquiry Number 4583327.12, April 6, 2016.

*EDR Building Permit Report: Target Property and Adjoining Properties*, *1001 W 15th Street, San Pedro, California 90731*, Inquiry Number 4583327.8, April 5, 2016.

*EDR Certified Sanborn Map Report, 1001 W 15th Street, San Pedro, California 90731*, Inquiry Number 4583327.3, April 21, 2016

*EDR Environmental LienSearch™ Report, 1001 W 15th Street, San Pedro, California 90731*, Inquiry Number 4583327.7S, April 21, 2016

*EDR Historical Topographic Map Report, 1001 W 15th Street, San Pedro, California 90731*, Inquiry Number 4583327.4, April 5, 2016.

*EDR Property Tax Map Report, 1001 W 15th Street, San Pedro, California 90731*, Inquiry Number 4583327.6, April 5, 2016.

*EDR Radius Map™ Report with GeoCheck®, 1001 W 15th Street, San Pedro, California 90731*, Inquiry Number 4583327.2s, April 5, 2016.

*EDR-City Directory Search Abstract, 1001 W 15th Street, San Pedro, California 90731*, Inquiry Number 4583327.5, April 5, 2016.

*Envirostor Document Repository*, California Environmental Protection Agency, Department of Toxic Substances Control ("DTSC") [www.envirostor.dtsc.ca.gov].

File Review: Department of Public Health, Los Angeles County, May 3, 2016

*GeoTracker Document Repository*, California State Water Resources Control Board, GeoTracker Geographic Environmental Information Management System ("GEIMS"), [http://geotracker.swrcb.ca.gov/].

*Navigate Los Angeles*, ZIMAS Database, http://zimas.lacity.org

Public Records Request, California Department of Toxic Substances Control – Chatsworth Regional Office, April 5, 2016

Public Records Request Response, California Department of Toxic Substances Control – Chatsworth Regional Office, April 7, 2016

Public Records Request, California Department of Toxic Substances Control – Cypress Regional Office, April 5, 2016

Public Records Request Response, California Department of Toxic Substances Control – Cypress Regional Office, April 8, 2016

Public Records Request, California Regional Water Quality Control Board – Los Angeles Regional Office, April 5, 2016

Public Records Request Response, California Regional Water Quality Control Board – Los Angeles Regional Office, April 14, 2016

Public Records Request, City of Los Angeles Department of Building and Safety, April 25, 2016

Public Records Request Response, City of Los Angeles Department of Building and Safety, April 27, 2016

Public Records Request, Department of Public Health, April 5, 2016

Public Records Request Response, Department of Public Health, April 7, 2016

Public Records Request, LA Regional Water Quality Board, April 5, 2016

Public Records Request Response, LA Regional Water Quality Board, April 15, 2016

Public Records Request, Los Angeles City Fire Department, April, 5, 2016

Public Records Request Response, Los Angeles City Fire Department, April 26, 2016

Public Records Request, Los Angeles Fire Department, April 5, 2016

Public Records Request Response, Los Angeles Fire Department, April 26, 2016

Public Records Request, Office of the State Fire Marshal, April 28, 2016

Public Records Request Response, Office of the State Fire Marshal, May 19, 2016

Public Records Request, South Coast Air Quality Management District, April 4, 2016

Public Records Request Response, South Coast Air Quality Management District, April 14, 2016

Site Walk:  San Pedro High School, April 27, 2016

*E-mail Correspondence*, Jay Nager, Complex Project Manager, May 24, 2016,

# APPENDIX J

# ENVIRONMENTAL PROFESSIONAL(S) QUALIFICATIONS

## STAFF QUALIFICATIONS FOR CONDUCTING PHASE I ENVIRONMENTAL SITE ASSESSMENTS

***Joan Greenwood:*** Ms. Greenwood has over 20 years of program and project management experience. She holds a Bachelor's degree in Chemistry from Wheaton College (Norton, MA) and a Certificate in Strategic Environmental Management from the University of California, Irvine (2005). Since 2000, she has focused on developing strengths in conducting environmental site assessments, industrial storm water compliance and evaluating hazardous waste management practices as a member of the litigation support team.

As part of her certificate requirements, she completed 30 hours of evaluated learning in conducting environmental audits and assessments. She has also completed over 30 hours of evaluated learning on vapor encroachment screening (Environmental Data Resources, Inc., April 2012). Other relevant course work includes:

- *AAI & Liability: Prepare, Preserve and Protect*, Environmental Data Resources, Inc., March 2006
- *Property Due Diligence: Tools of the Trade*, Environmental Data Resources, Inc., April 2004
- *Use of California Human Health Screening Levels (CHHLS) in Evaluation of Contaminated Properties*, California EPA, March 2005
- *California Land Reuse and Revitalization Act of 2004*, California EPA, March 2005
- University of California, Irvine, Extension Program: *Chemical and Physical Principles of Environmental Management*, *Biological Principles of Environmental Management*, *Legal and Regulatory Framework of Environmental Management*, *Computer Modeling Lab* (Environmental Applications of Air, Water and GIS Programs*), Assessment and Remediation of Environmental Contamination*; *Introduction to Environmental Assessments and Auditing*, *Environmental Applications of Risk Management* and *Environmental Land Planning and Management*
- AEHS, Inc., Conference (Workshops and Seminars for CEUs): *Methane Gas: Technical and Legal Challenges to Residential and Commercial Development*, *Brownfields Redevelopment: Opportunity v. Risk* and *Challenges to Contaminant Transport Models for Soils.*

Since September 2012, Ms. Greenwood has completed over 100 Phase I Environmental Site Assessments and over a dozen Tier 2 Vapor Encroachment document reviews. Prior to September 2012, she assisted with the I-710 Brownfields Pilot Project which involved conducting 15 Preliminary Site Assessments, 10 Phase I Environmental Site Assessments and an Area Study encompassing 14 city blocks composed of over 200 parcels. She also assisted the Los Angeles Unified School District, Office of General Counsel Real Estate Department, by evaluating Phase I and Phase II Environmental Site Assessments prepared by other environmental consultants to establish remediation holdback costs.

***Jeff Bannon, P.G.***: Mr. Bannon brings over 27 years of diversified environmental consulting experience for a wide range of clients, including State and local municipalities and governmental agencies, the federal government (EPA, DOE, DOD, DOI) and many commercial/industrial clients. As a Senior Project Manager he has led large, complex field efforts for a wide variety of projects and responsible for all phases of project coordination including project scoping and costing, budget tracking, technical review and client service. Fields of competence include:

- Program and project management
- Hydrogeologic/hazardous materials investigations
- Remedial investigations/feasibility studies
- Remedial/removal actions
- Regulatory interface and negotiation
- Project scoping and costing
- Facility decommissioning and decontamination
- Real estate transaction and property development (Phase I and II assessments).

**Project Manager - Soil and Groundwater Remediation, Facility Closure - Kwikset Corporation, Anaheim, CA**. Managed upgrade of a groundwater remediation program that included expansion of a recovery system for chlorinated solvent impacted groundwater. Groundwater recovery system consisted of six extraction wells with a combined pumping rate of around 200 gpm. A distribution system was designed and constructed to tie extracted groundwater to supply process make-up water for plant operations. Managed groundwater modeling effort and successful at negotiating No Further Action determination from the SARWQCB for the groundwater remediation program.

Managed the design, permitting, startup, operation and closure of a vapor extraction system for removing chlorinated solvent. Vapor control units consisted of 2, 400-pound carbon units which were steam-stripped so that carbon was regenerated on site.

Following plant shut-down, completed due diligence investigations in preparation of property sale. The investigations identified several areas where shallow soils were impacted by a variety of compounds including heavy metals, solvents, total petroleum hydrocarbons, cyanide and arsenic. Prepared a Remedial Action Plan and implemented the plan which resulted in excavation and off-site disposal of approximately 40,000 tons of soil impacted above approved clean-up concentrations. Closure was obtained by the Regional Water Quality Control Board.

**Project Manager - Facility Closure, Remedial Investigation/Remedial Action - Confidential Electronics Manufacturer, Torrance, CA.** Project Manager on multifaceted facility closure. Project involved site investigations (soil, soil-gas, groundwater, off-site groundwater, building materials), decontamination and formal closure of RCRA permitted treatment units associated with plating operations, building decontamination and internal demolition, leaching test modeling, risk assessment, soil excavation within a building, and soil vapor extraction (SVE). RCRA closure required development of a Closure Plan, bid specifications for contractor decontamination and demolition activity, oversight of demolition contractor, and submittal of final closure report for approval by the Cal-EPA/DTSC. Successful at operating SVE system for solvent-impacted soil and obtaining No Further Action determination from Regional Water Quality Control Board. Project required extensive real estate support during sale and transition of the property to new use. All parcels have been returned to commercial operation.

**Program Manager - United States Forest Service, Various Locations, CA.** Program Manager/Technical Manager/Project Manager for over 20 projects for the USFS across California including site/remedial investigations, engineering evaluation/cost analysis (EE/CA), non-time critical removal action, tailings stabilization, and demolition/site cleanup services. Many projects require working in remote locations and involved use of helicopters, 4-wheel drive vehicles, snowmobiles, foot access, and mule-train access. Most sites were associated with abandoned mine lands, but sites also included unrestricted shooting areas, a former county-operated landfill, and USFS operational areas (real estate and UST projects).

**Project Manager - Remedial Investigation - United States Forest Service, Meyers Landfill, South Lake Tahoe, CA.** Project Manager on large groundwater investigation to evaluate distribution of impacts to groundwater associated with closed municipal landfill. Work involved installation of over 34 wells in multiple groundwater horizons, development of hydrogeologic model, evaluation of monitored natural attenuation parameters, routine groundwater monitoring of over 70 monitoring well network, determination of potential waste/groundwater interaction, stream gauging and sampling, and evaluation of interaction of groundwater and surface water flowing adjacent to the landfill. Drilling required installation in difficult forest access locations, including drilling in winter snow, and use of various drilling techniques including hollow-stem auger, direct push, sonic, and air rotary.

**Project Manager - Facility Decontamination and Demolition - Confidential Retailer, La Habra, CA.** Project manager for decontamination and demolition of 170,000-$ft^2$ manufacturing facility for site redevelopment. Project included hazardous materials assessments (asbestos, lead paint, mercury switches, PCB ballasts, freon lines), development of bid specifications, and construction management for the abatement/demolition.

# APPENDIX K

# SUPPLEMENTAL DOCUMENTATION

**San Pedro High School**
1001 W 15th Street
San Pedro, CA 90731

Inquiry Number: 4583327.7S
April 21, 2016

# The EDR Environmental LienSearch™




6 Armstrong Road,
Fourth Floor
Shelton, CT 06484
800.352.0050
www.edrnet.com

# EDR Environmental LienSearch™ Report

The EDR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.

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# EDR Environmental LienSearch™ Report

## TARGET PROPERTY INFORMATION

### ADDRESS

SAN PEDRO HIGH SCHOOL
1001 W 15TH STREET
SAN PEDRO, CA 90731

### RESEARCH SOURCE

Source 1: Los Angeles Assessor
Los Angeles County, California

Source 2: Los Angeles Recorder
Los Angeles County, California

### PROPERTY INFORMATION

**Deed 1:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles City High School District of Los Angeles County
Title received from: Louis M. Sepulveda and Myrtle R. Sepulveda, husband and wife
Deed Dated: 07/09/1934
Deed Recorded: 07/13/1934
Book: 12784
Page: 380

**Deed 2:**

Type of Deed: Quitclaim Deed
Title is vested in: Los Angeles City High School District of Los Angeles County
Title received from: Board of Water and Power Commissioners of the City of Los Angeles
Deed Dated: 03/14/1939
Deed Recorded: 07/10/1939
Book: 16846
Page: 10

**Deed 3:**

Type of Deed: Quitclaim Deed
Title is vested in: Los Angeles City High School District of Los Angeles County
Title received from: Southern Counties Gas Company of California, a corporation
Deed Dated: 09/29/1953
Deed Recorded: 10/29/1953
Instrument: 2848

**Deed 4:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles City High School District of Los Angeles County
Title received from: Teresa C. Gallagher, a single woman
Deed Dated: 06/16/1954
Deed Recorded: 07/23/1954
Instrument: 1642

**Deed 5:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles City High School District of Los Angeles County
Title received from: George Carter, an unmarried man, as his separate property
Deed Dated: 07/22/1954
Deed Recorded: 08/20/1954
Instrument: 1500

**Deed 6:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles City High School District of Los Angeles County
Title received from: Joe Pielago and Fay M. Pielago, his wife
Deed Dated: 06/28/1954
Deed Recorded: 08/27/1954
Instrument: 1462

**Deed 7:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles City High School District of Los Angeles County
Title received from: Isamu Yasada and Reiko Yasada, husband and wife
Deed Dated: 01/30/1959
Deed Recorded: 03/24/1959
Instrument: 1805

**Deed 8:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles City High School District of Los Angeles County
Title received from: Joe Solis and Carmen Solis, husband and wife
Deed Dated: 02/18/1959
Deed Recorded: 03/27/1959
Instrument: 328

**Deed 9:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles City High School District of Los Angeles County
Title received from: Sudie B. Christensen, a widow, and Belle L. McKinney, a single woman, mother and daughter
Deed Dated: 02/20/1959
Deed Recorded: 04/07/1959
Instrument: 2110

**Deed 10:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles City High School District of Los Angeles County
Title received from: Everett T. Williams and Betty Williams, husband and wife
Deed Dated: 03/09/1959
Deed Recorded: 04/10/1959
Instrument: 2158

**Deed 11:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles City High School District of Los Angeles County
Title received from: Richard P. Widner and Armida Widner, husband and wife
Deed Dated: 02/18/1959
Deed Recorded: 04/15/1959
Instrument: 2036

**Deed 12:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles City High School District of Los Angeles County
Title received from: Nick Funcich and Mary Funcich, husband and wife
Deed Dated: 03/26/1959
Deed Recorded: 04/28/1959
Instrument: 1957

**Deed 13:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles City High School District of Los Angeles County
Title received from: Earl A. O. Kuhl, a widower
Deed Dated: 02/18/1959
Deed Recorded: 05/04/1959
Instrument: 1754

**Deed 14:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles City High School District of Los Angeles County
Title received from: Gustav H. Lilistrom and Tekla M. Lillstrom, husband and wife
Deed Dated: 04/06/1959
Deed Recorded: 05/22/1959
Instrument: 2036

**Deed 15:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles City High School District of Los Angeles County
Title received from: Kinjiu Tasuda and Masako Yasuda, husband and wife
Deed Dated: 03/04/1959
Deed Recorded: 06/09/1959
Instrument: 1794

**Deed 16:**

Type of Deed: Corporation Quitclaim Deed
Title is vested in: Los Angeles City High School District of Los Angeles County
Title received from: Los Angeles City High School District of Los Angeles County
Deed Dated: 04/12/1960
Deed Recorded: 05/02/1960
Instrument: 1867

**Deed 17:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Amy L. Saunders, a single woman
Deed Dated: 02/24/1961
Deed Recorded: 03/24/1961
Instrument: 1807

**Deed 18:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Benjamin R. Woodbury and Edith Woodbury, husband and wife
Deed Dated: 03/02/1961
Deed Recorded: 03/24/1961
Instrument: 1847

**Deed 19:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Cleo H. Thompson, a widow
Deed Dated: 03/21/1961
Deed Recorded: 04/19/1961
Instrument: 1478

**Deed 20:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Stephan Soljacich and Mary Soljacich, husband and wife
Deed Dated: 03/28/1961
Deed Recorded: 05/23/1961
Instrument: 1633

**Deed 21:**

Type of Deed: Final Order of Condemnation
Title is vested in: Los Angeles Unified School District of Los Angeles County, Plaintiff
Title received from: George Bosnick, et al., Defendants
Deed Dated: 02/21/1962
Deed Recorded: 04/04/1962
Instrument: 4726

**Deed 22:**

Type of Deed: Final Order of Condemnation
Title is vested in: Los Angeles Unified School District of Los Angeles County, Plaintiff
Title received from: George Bosnick, et al., Defendants
Deed Dated: 02/21/1962
Deed Recorded: 04/04/1962
Instrument: 4727

**Deed 23:**

Type of Deed: Final Order of Condemnation
Title is vested in: Los Angeles Unified School District of Los Angeles County, Plaintiff
Title received from: George Bosnick, et al., Defendants
Deed Dated: 02/21/1962
Deed Recorded: 04/04/1962
Instrument: 4728

**Deed 24:**

Type of Deed: Final Order of Condemnation
Title is vested in: Los Angeles Unified School District of Los Angeles County, Plaintiff
Title received from: George Bosnick, et al., Defendants
Deed Dated: 02/21/1962
Deed Recorded: 04/04/1962
Instrument: 4729

**Deed 25:**

Type of Deed: Final Order of Condemnation
Title is vested in: Los Angeles Unified School District of Los Angeles County, Plaintiff
Title received from: George Bosnick, et al., Defendants
Deed Dated: 02/21/1962
Deed Recorded: 04/04/1962
Instrument: 4730

**Deed 26:**

Type of Deed: Final Order of Condemnation
Title is vested in: Los Angeles Unified School District of Los Angeles County, Plaintiff
Title received from: George Bosnick, et al., Defendants
Deed Dated: 02/21/1962
Deed Recorded: 04/04/1962
Instrument: 4731

**Deed 27:**

Type of Deed: Final Order of Condemnation
Title is vested in: Los Angeles Unified School District of Los Angeles County, Plaintiff
Title received from: George Bosnick, et al., Defendants
Deed Dated: 02/21/1962
Deed Recorded: 04/04/1962
Instrument: 4732

**Deed 28:**

Type of Deed: Final Order of Condemnation
Title is vested in: Los Angeles Unified School District of Los Angeles County, Plaintiff
Title received from: George Bosnick, et al., Defendants
Deed Dated: 03/02/1962
Deed Recorded: 04/04/1962
Instrument: 4739

**Deed 29:**

Type of Deed: Final Order of Condemnation
Title is vested in: Los Angeles Unified School District of Los Angeles County, Plaintiff
Title received from: George Bosnick, et al., Defendants
Deed Dated: 04/04/1962
Deed Recorded: 05/02/1962
Instrument: 5178

**Deed 30:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County, Plaintiff
Title received from: George Bosnick, et al., Defendants
Deed Dated: 05/09/1962
Deed Recorded: 05/23/1962
Instrument: 4566

**Deed 31:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Robert O. Bryant and Freda M. Bryant, husband and wife
Deed Dated: 09/21/1967
Deed Recorded: 10/13/1967
Instrument: 1157

**Deed 32:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Herbert J. Young and Mae H. Young, husband and wife
Deed Dated: 09/21/1967
Deed Recorded: 10/25/1967
Instrument: 640

**Deed 33:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Robert C. Martin and Oletha P. Martin, husband and wife
Deed Dated: 10/01/1967
Deed Recorded: 10/26/1967
Instrument: 498

**Deed 34:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: James H. Campbell and Frances Campbell, husband and wife
Deed Dated: 10/07/1967
Deed Recorded: 10/26/1967
Instrument: 500

**Deed 35:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Wilbert H. Hodgson and Antoinette D. Hodgson, husband and wife
Deed Dated: 10/20/1967
Deed Recorded: 11/29/1967
Instrument: 517

**Deed 36:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Kuito Olavi Ahtonen and Alli T. Ahtonen, husband and wife
Deed Dated: 11/15/1967
Deed Recorded: 12/05/1967
Instrument: 537

**Deed 37:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Vice Ivanov and Danica Ivanov, husband and wife
Deed Dated: 11/14/1967
Deed Recorded: 12/08/1967
Instrument: 661

**Deed 38:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Lawrence J. Franta and Ilka A. Franta, husband and wife
Deed Dated: 12/06/1967
Deed Recorded: 01/11/1963
Instrument: 445

**Deed 39:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Donald W. McGuire, a single man
Deed Dated: 11/30/1967
Deed Recorded: 01/16/1963
Instrument: 449

**Deed 40:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Gary T. Greene and Margaret E. Greene, husband and wife
Deed Dated: 12/08/1967
Deed Recorded: 01/19/1968
Instrument: 400

**Deed 41:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Francis V. Wond and Magdalina C. Wond, husband and wife
Deed Dated: 01/15/1968
Deed Recorded: 02/09/1968
Instrument: 499

**Deed 42:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Andrea Soric and Katica Soric, husband and wife
Deed Dated: 01/15/1968
Deed Recorded: 03/04/1968
Instrument: 416

**Deed 43:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Vincent F. Zamberlin and Minnie A. Zamberlin, husband and wife
Deed Dated: 02/12/1968
Deed Recorded: 03/08/1968
Instrument: 442

**Deed 44:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Jacob Schnell and Mary Schnell, husband and wife
Deed Dated: 02/24/1968
Deed Recorded: 03/21/1968
Instrument: 395

**Deed 45:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Joseph Zuanich and Anna Marie Zuanich, husband and wife
Deed Dated: 03/06/1968
Deed Recorded: 03/28/1968
Instrument: 416

**Deed 46:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Raymond P. Kramer, also known as Raymond Paul Kramer and Pearl O. Kramer, husband and wife
Deed Dated: 02/24/1968
Deed Recorded: 03/29/1968
Instrument: 756

**Deed 47:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Marion A. Chuka and Rose V. Chuka, husband and wife
Deed Dated: 02/12/1968
Deed Recorded: 04/10/1968
Instrument: 441

**Deed 48:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Dinko Pecarich and Ruby Pecarich, husband and wife
Deed Dated: 05/24/1968
Deed Recorded: 06/12/1968
Instrument: 470

**Deed 49:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Arthur F. Paulsen and Viola L. Paulsen, husband and wife
Deed Dated: 05/28/1968
Deed Recorded: 07/17/1968
Instrument: 404

**Deed 50:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Helen C. Sanderson, a single woman
Deed Dated: 09/04/1968
Deed Recorded: 10/23/1968
Instrument: 483

**Deed 51:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Robert L. Warnock and Suzanne S. Warnock, husband and wife, as joint tenants (as to an undivided 1/3 interest), Gordon A. Warnock and Nancy S. Warnock, husband and wife, as joint tenants (as to an undivided 1/3 interest) and Frances R. Warnock, a single woman (as to an undivided 1/3 interest)
Deed Dated: 09/04/1968
Deed Recorded: 11/07/1968
Instrument: 417

**Deed 52:**

Type of Deed: Grant Deed
Title is vested in: Los Angeles Unified School District of Los Angeles County
Title received from: Nellie Acosta, an unmarried woman, and Carmen Acosta Enciso, a married woman, who acquired title as Carmen Acosta, a single woman, mother and daughter, as joint tenants
Deed Dated: 10/29/1968
Deed Recorded: 01/09/1969
Instrument: 180

# EDR Environmental LienSearch™ Report

**Deed 53:**

Type of Deed: Grant Deed

Title is vested in: Los Angeles Unified School District of Los Angeles County

Title received from: Ernest N. Papadakis, George N. Papadakis and Robert Ivon, as Trustees (as to an undivided 7/14th interest), Ernest N. Papadakis (as to an undivided 1/14th interest), Joan Ivon (as to an undivided 1/14th interest), Mae Peratis (as to an undivided 1/14th interest), Helen Pinkston (as to an undivided 1/14th interest), Beatrice Moore (as to an undivided 1/14th interest), George N. Papadakis (as to an undivided 1/14th interest), Ernest N. Papadakis (as to an undivided 1/14th interest), as trustee

Deed Dated: 02/04/1969

Deed Recorded: 04/04/1969

Instrument: 283

**Deed 54:**

Type of Deed: Grant Deed

Title is vested in: Los Angeles Unified School District of Los Angeles County

Title received from: Grace Todd

Deed Dated: 03/08/1969

Deed Recorded: 04/04/1969

Instrument: 1756

**Legal Description:** All that certain piece or parcel of land being Lot 1 of Tract No. 23794, as filed in Book 827, Pages 60-61, situate and lying in the County of Los Angeles, State of California.

**Legal Current Owner:** Los Angeles Unified School District of Los Angeles County

**Property Identifiers:** 7458-024-918

# EDR Environmental LienSearch™ Report

**ENVIRONMENTAL LIEN**

Environmental Lien: Found ☐ Not Found ☒

If found:

1st Party:

2nd Party:

Dated:

Recorded:

Book:

Page:

Docket:

Volume:

Instrument:

Comments:

Miscellaneous:

**OTHER ACTIVITY AND USE LIMITATIONS (AULs)**

Other AUL's: Found ☐ Not Found ☒

If found:

1st Party:

2nd Party:

Dated:

Recorded:

Book:

Page:

Docket:

Volume:

Instrument:

Comments:

Miscellaneous:

# EDR Environmental LienSearch™ Report

## DEED EXHIBIT

to be the persons whose names are subscribed to the foregoing instrument and acknowledged to me that they executed the same. WITNESS my hand and official seal.

(NOTARIAL SEAL) DORRIS L. ARNEY, Notary Public
in and for said county and state.

9147, Copy of original recorded at request of Title Ins & Tr Co Jul 13 1934 8:30 A.M. Copyist JP Compared C L Logan County Recorder By L.A. Donovan (37) Deputy $4.70-11. M.

USIRS $68.00 Cancelled)

## GRANT DEED.

LOUIE M. SEPULVEDA and MYRTLE R. SEPULVEDA, husband and wife, in consideration of Ten ($10.00) Dollars, to them in hand paid, receipt of which is hereby acknowledged, do hereby grant to LOS ANGELES CITY HIGH SCHOOL DISTRICT OF LOS ANGELES COUNTY, the real property in the City of Los Angeles, County of Los Angeles, State of California, described as:

THAT portion of Lot 3 of the Subdivision of Lot "M" of the partition of the Rancho Los Palos Verdes, as per map filed in Book 1, page 47 of Record of Surveys, in the office of the County Recorder of said county, described as follows: BEGINNING at the intersection of the Southerly line of said Lot 3 with the Easterly line of Leland Street as said street is described in the deed to said city, recorded in Book 7033, page 312 of Deeds, records of said county; thence Easterly along said Southerly line to the Southwest corner of Tract No. 9662, as per map recorded in Book 148, pages 23 and 24 of Maps, in the office of the County Recorder of said county; thence Northerly along the Westerly line of said Tract 9662 to the Northwesterly corner thereof; thence Westerly along the Westerly prolongation of the Northerly line of said Tract to the Easterly line of Meyler Street as said Meyler Street is shown on the map of Vista Del Oro, recorded in Book 37, page 59 of said map records; thence Southerly along said Easterly line to the Southeasterly corner of said Vista Del Oro; thence Westerly along the South line of said Vista Del Oro to the East line of said Leland Street; thence Southerly along said Easterly line to the point of beginning;

TOGETHER with all right, title and interest of the grantors herein in and to all streets and alleys immediately adjoining and adjacent to the property hereinbefore described;

SUBJECT to general and special taxes of the fiscal year 1934-1935;

SUBJECT ALSO to an easement for a pipe line or lines for the conveyance of water, as granted to the City of Los Angeles by deed recorded in Book 7314, page 14 of Deeds, records of said county; SUBJECT ALSO to a right of way as granted by LOUIE M. SEPULVEDA et ux to SOUTHERN COUNTIES GAS COMPANY OF CALIFORNIA, a corporation, by deed recorded contemporaneously herewith.

WITNESS their hands this 9th day of July, 1934.

LOUIE M. SEPULVEDA.
MYRTLE R. SEPULVEDA.

State of California, County of Los Angeles)ss.

On this 9th day of July, 1934, before me, ANNE A. MUNN, a Notary Public in and for said county, personally appeared LOUIE M. SEPULVEDA and MYRTLE R. SEPULVEDA, known to me to be the persons whose names are subscribed to the foregoing instrument and acknowledged to me that they executed the same. WITNESS my hand and official seal.

(NOTARIAL SEAL) ANNE A. MUNN, Notary Public
in and for the County of Los Angeles, State of California.

## ACCEPTANCE.

(Excerpt from Section 2, Building Committee Report, elementary, high school and Junior college district, adopted by the Board of Education on July 12, 1934).

"THE Board of Education hereby accepts Grant Deed dated July 9, 1934, from LOUIE M. SEPULVEDA and MYRTLE R. SEPULVEDA, to LOS ANGELES CITY HIGH SCHOOL DISTRICT OF LOS ANGELES COUNY, conveying the real property in the City of Los Angeles, County of Los Angeles, State of California, described as follows:

"THAT portion of Lot 3 of the Subdivision of Lot 'M' of the Partition of the Rancho Los Palos Verdes, as per map filed in Book 1, page 47, Records of Surveys, in the office of the County Recorder of said county, described as follows:

"BEGINNING at the intersection of the Southerly line of said Lot 3 with the Easterly line of Leland Street as said street is described in the deed to said city, recorded in Book 7033, page 312 of Deeds, records of said county; thence Easterly along said Southerly line to the Southwest corner of Tract No. 9662, as per map recorded in Book 148, pages 23 and 24 of Maps, in the office of the County Recorder of said county; thence Northerly along the Westerly line of said Tract No. 9662, to the Northwesterly corner thereof; thence Westerly along the Westerly prolongation of the Northerly line of said Tract to the Easterly line of Meyler Street as said Meyler Street is shown on the map of [illegible], recorded in Book 37, page 59 of said map records; thence Southerly along

1/12764-360 OR

said Easterly line to the Southeasterly corner of said Vista Del Oro; thence Westerly along the South line of said Vista Del Oro to the East line of said Leland Street; thence Southerly along said Easterly line to the point of beginning;

"TOGETHER with all right, title and interest of the grantors herein and to all streets and alleys immediately adjoining and adjacent to the property hereinbefore described."

BOARD OF EDUCATION OF THE CITY OF LOS ANGELES,
By N. M. Griffin, Secretary.

#8. Copy of original recorded at request of Title Ins & Tr Co Jul 13 1934 8:30 A.M.
Copyist 17 Compared C L Logan County Recorder By L A Donovan (S) Deputy.
9888-9. B.

THIS MORTGAGE made May 21, 1934, by KATIE DANIELS, a widow, hereinafter called Mortgagor, to COUNTY OF LOS ANGELES, a body corporate and politic in and of the State of California, and existing under and by virtue of the laws of said state, hereinafter called Mortgagee;

WITNESSETH: That mortgagor hereby mortgages to mortgagee all the right, title and interest of said mortgagor in and to the following described real and/or personal property, situated in the County of Los Angeles, State of California, and more particularly described as follows:

LOTS 173 and 174, Amended Plat of a portion of Alton Tract, as shown on map recorded in Book 11, page 161 of Maps, records of the County of Los Angeles;

AND all other property, real and personal, wherever situated in which said mortgagor now has or shall hereafter acquire any interest, including all buildings and improvements thereon (or that may hereafter be erected thereon); together with all and singular the tenements, hereditaments and appurtenances, water and water rights, pipes, flumes, ditches and other rights thereunto belonging or in anywise now or hereafter appertaining thereto, and the reversion and reversions, remainder and remainders, rents, issues and profits thereof;

FOR THE PURPOSE of securing payment by said mortgagor to said mortgagee of the sum of Seventy-four and 50/100 Dollars ($74.50) advanced to or for said mortgagor by said mortgagee under the provisions of those certain laws of the State of California, or either of them entitled: "An act to provide for the maintenance and support in certain cases, of indigent, incompetent and incapacitated persons (other than persons adjudged insane and confined within state hospitals) becoming a public charge upon the counties or cities and counties within the State of California, and for the payment thereof into a fund for the maintenance and support of such persons." (Approved March 23, 1901. Stats. 1901, p. 636) as amended and "An act to provide for the aid and relief of indigents." Chap. 761, Chapter Laws, 1933 (approved 6/8/1933) Stats. 1933 P. 2005 as amended, and payment as aforesaid of any money or the value of any property or services that may be paid or given hereafter to or for said mortgagor by said mortgagee. K.D. K.D.

Said mortgagee shall have the power to sell any or all of said property by its Board of Supervisors, or any officer authorized thereto by said Board or by law, and said mortgagor waives demand and notice of sale as to any personal property included in this mortgage.

The lien of this mortgage shall continue for four years from the date of the last advance or payment made by said mortgagee as aforesaid, and may be foreclosed or the power of sale exercised as to any part of said property, and for any part of the amount advanced or paid, and any such partial foreclosure or sale shall not affect the right of said mortgagee to any additional foreclosure or sale until the full amount for which this mortgage is security shall be paid.

KATIE DANIELS, (Mortgagor)
(1413 E. 108th St., L.A.)

County of Los Angeles, State of California) ss.

On this 21 day of May, in the year one thousand nine hundred and thirty-four, before me, L. E. LAMPTON, County Clerk and ex-officio Clerk of the Superior Court in and for said county, personally appeared KATIE DANIELS, known to me to be the person whose name is subscribed to the within instrument, and acknowledged to me that she executed the same.

AND I do hereby certify that the annexed instrument is executed and acknowledged in accordance with the laws of the State of California.

(SUPERIOR COURT SEAL)
Officio Clerk of said Superior Court. By L. E. LAMPTON, County Clerk and ex-Howard R. Frost, Deputy Clerk.

Description approved Jun 19 1934; J. E. ROCKHOLD, County Surveyor, By HAROLD A. HARRIS, Deputy;
Accepted by Board of Supervisors July 3 1934; Minutes: Vol 800 Page-----
Approved as to Form; MERRITT W. HATTOON, County Counsel, By L.E. MORALES, Deputy;

(R. by CHARITIES DEPARTMENT; ) A mortgage executed May 21st, 1934, by KATIE
RELEASE OF MORTGAGE FROM ) DANIELS, mortgagor, to the COUNTY OF LOS ANGELES,

STATE OF CALIFORNIA, COUNTY OF LOS ANGELES)SS. On this 19 day of May, A.D.,1939, before me, Annette S. Nelson, a Notary Public in and for said County and State, personally appeared Joseph J. May, President, known to me, (~~ew-proved-to-me-on-the-oath-of~~), to be the person whose name is subscribed to the within Instrument, and acknowledged to me that he executed the same. IN WITNESS THEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

(Notarial Seal) Annette S. Nelson, Notary Public in and for said County and State.

#1260. Copy of original recorded at request of TITLE GUAR. & TR.CO., AUG.9,1939, 8:30 A.M. Copyist #102. Compared, MAME B. BEATTY, COUNTY RECORDER, BY [illegible] DEPUTY. $1.00-S.M.

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RELEASE OF MECHANIC'S LIEN

KNOW ALL MEN BY THESE PRESENTS: That that certain notice of lien executed by the undersigned and claiming a lien upon the following described real property situated in the County of - , State of California, to-wit:

13,370 Contour Dr. Bldg. Lot 154, Tr 7633 - dated the 18th day of May, 1939, and recorded in the office of the County Recorder of Los Angeles County on the 18th day of May, 1939, in Book 16596 of Official Records page 239 is hereby released, the claim thereunder having been fully paid and satisfied.

WITNESS my hand this - day of - , 19 - .

La Brea Shade & Lino. Co.
Edward A. Freeman
A Freeman -

STATE OF CALIFORNIA, COUNTY OF LOS ANGELES)SS. On this 2d day of Aug., A.D., 1939, before me, G. C. Buchen, a Notary Public in and for said County and State, personally appeared Edward A. Freeman and A. Freeman, known to me, (~~ew-proved-to-me-on-the-oath of~~), to be the persons whose names are subscribed to the within Instrument, and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

(Notarial Seal) G. C. BUCHEN, NOTARY PUBLIC in and for said County and State. My Commission Expires Jan. 26,1942.

#1264. Copy of original recorded at request of TITLE GUAR. & TR.CO., AUG.9,1939, 2:28 P.M. Copyist #102. Compared, Mame B. Beatty, County Recorder, By [illegible] Deputy. $1.00-S.M.

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QUITCLAIM DEED

THIS INDENTURE WITNESSETH: THAT WHEREAS, on the 14th day of March, 1939, the Board of Water and Power Commissioners of The City of Los Angeles, by resolution, ordered the sale to the Los Angeles City High School District of Los Angeles County of all the right, title and interest of The City of Los Angeles and the Department of Water and Power of The City of Los Angeles in and to the hereinafter described real property, and the City Council of The City of Los Angeles, on the 19th day of April, 1939, by Ordinance No. 81,229 approved said sale; NOW, THEREFORE, The City of Los Angeles and the Department of Water and Power of The City of Los Angeles, hereinafter collectively referred to as grantor, in consideration of the sum of One Thousand and 00/100 Dollars ($1,000.00), receipt of which is hereby acknowledged, hereby remise, release and quitclaim to theLos Angeles City High School District of Los Angeles County all of the right, title and interest of The City of Los Angeles and the Department of Water and Power of The City of Los Angeles, granted in that certain deed recorded July 26, 1920 in Book 7314, Page 14 of Deeds, Records of Los Angeles County, California, in and to that certain real property situate in the County of Los Angeles, State of California, bounded and described as follows, to wit:

A strip of land 10 feet in width being all that certain portion of Lot 3 of Lot M of the Rancho Los Palos Verdes as per L. S. 1-47, Records of Los Angeles County, lying within 5 feet on each side of the following described center line, to wit:

Beginning at a point on the South line of Fifteenth Street as shown on map of Vista del Oro Tract recorded in Book 37, Page 59 of Maps, Records of Los Angeles County, said point being 24.50 feet east of the west line of Alma Street produced; thence south parallel to and distant 24.50 feet from the southerly production of Alma Street to an intersection with the north line of Peck's Grand View Tract, as per M.B. 8, Page 79, records of Los Angeles County; provided that said pipe lines will be constructed at such depth and grade as will not in any way interfere with the proposed opening and grading of

Alma Street through said property. 8878

IN WITNESS WHEREOF, the said THE CITY OF LOS ANGELES by its City Council, has caused this instrument to be executed in its behalf by its Mayor, to be attested by its Clerk, and its corporate seal to be hereunto affixed by said Clerk, and the said Department of Water and Power of THE CITY OF LOS ANGELES, by the BOARD OF WATER AND POWER COMMISSIONERS of THE CITY OF LOS ANGELES, has caused this instrument to be executed in its behalf by its proper officers thereunto duly authorized and its official seal to be hereunto affixed this 14 day of June, 1939.

(Corporate Seal) THE CITY OF LOS ANGELES,

By Fletcher Bowron, Mayor

Attest: RALPH E. DAVIS, CITY CLERK

(Department of Water and Power Seal) DEPARTMENT OF WATER AND POWER OF THE CITY OF LOS ANGELES BY BOARD OF WATER AND POWER COMMISSIONERS OF THE CITY OF LOS ANGELES.

By A. J. Mullen, President

And Robert A. Zink, Ass't Secretary

8875

STATE OF CALIFORNIA, COUNTY OF LOS ANGELES)SS. On this 15th day of June, 1939, before me, J. E. Hopper, a Notary Public in and for said County and State, duly commissioned and sworn, personally appeared FLETCHER BOWRON, known to me to be the Mayor, and xxxx, RALPH E. DAVIS, known to me to be the City Clerk of THE CITY OF LOS ANGELES, the municipal corporation that executed the within instrument, known to me to be the persons who executed the within instrument on behalf of said THE CITY OF LOS ANGELES, and acknowledged to me that such municipal corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

(Notarial Seal) J. E. HOPPER, NOTARY PUBLIC

in and for the County of Los Angeles, State of California.

STATE OF CALIFORNIA, COUNTY OF LOS ANGELES)SS. On this 14 day of June, 1939, before me, R. B. PEGRAM, A NOTARY PUBLIC in and for said County and State, duly commissioned and sworn, personally appeared A. J. MULLEN, known to me to be the President, and JAS.P. VROMAN, known to me to be the Secretary of the BOARD OF WATER AND POWER COMMISSIONERS of THE CITY OF LOS ANGELES, the governing body of the DEPARTMENT OF WATER AND POWER OF THE CITY OF LOS ANGELES, the municipal corporation that executed the within instrument, known to me to be the persons who executed the within instrument on behalf of said DEPARTMENT OF WATER AND POWER OF THE CITY OF LOS ANGELES, and acknowledged to me that such municipal corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

(Notarial Seal) R. B. PEGRAM, NOTARY PUBLIC

in and for the County of Los Angeles, State of California.

Description Correct C. J. Itta., Chief Draftsman June 12, 1939. O.K.O.

Approved as to form and legality This 12 Day of June, 1939. RAY L. CHESEBRO, City Attorney. By Rex B. Goodcell, Jr., Deputy

Checked DKR

Approved H. A. Van Norman, Chief Engineer & General Manager BUREAU OF WATER WORKS AND SUPPLY By: OBM

Recorded in Book 10 Page 21 of Deeds. R. E. DAVIS, CITY CLERK

STATE OF CALIFORNIA, COUNTY OF LOS ANGELES)SS. I, A. S. NIBECKER, JR., Business Manager and Architect, Board of Education of Los Angeles City High School District of Los Angeles County, hereby certify that the following resolution was duly adopted by said Board of Education at a regular meeting of said Board held on the 10th day of July, 1939, to-wit:

"The Board of Education hereby accepts Quitclaim Deed dated June 14, 1939, from The City of Los Angeles and the Department of Water and Power of the City of Los Angeles, by Board of Water Commissioners of the City of Los Angeles, remising, releasing, and quitclaiming to Los Angeles City High School District of Los Angeles County all right, title and interest in and to that certain real property, bounded and described as follows: A strip of land 10 feet in width being all that certain portion of Lot 3 of Lot M of the Rancho Los Palos Verdes as per L.S. 1-47, Records of Los Angeles County, lying within 5 feet on each side of the following described center line, to-wit: Beginning at a point on the South line of Fifteenth Street as shown on map of Vista del Oro Tract recorded in Book 37, Page 59 of Maps, Records of Los Angeles County, said point being 24.50 feet east of the west line of Alma Street produced; thence south parallel to and distant 24.50 feet from the southerly production of Alma

Street to an intersection with the north line of Peck's Grand View Tract, as per M.R. 5, Page 79, records of Los Angeles County; provided that said pipe lines will be constructed at such depth and grade as will not in any way interfere with the proposed opening and grading of Alma Street through said property."

(Board of Education Seal) A. S. MIECKER, JR.

SUBSCRIBED AND SWORN TO before me this 20th day of July, 1939.

(Notarial Seal) CHARLES TUNK, NOTARY PUBLIC

in and for the County of Los Angeles, State of California. My Commission Expires May 2, 1943. RAJ

#1255. Copy of original recorded at request of TITLE INS. & TR.CO., AUG.9,1939, 2:28 P.M. Copyist #106. Compared, MAME B. BEATTY, COUNTY RECORDER, BY ) DEPUTY. Free-1?.M.

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IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA, IN AND FOR THE COUNTY OF LOS-ANGELES VENTURA

VICTOR FLORES ET AL, Plaintiff, vs. H. K. SMITH, et al Defendant.) No. 21278 AFFIDAVIT OF DAVID C. MARCUS

COUNTY OF LOS ANGELES. STATE OF CALIFORNIA) DAVID C. MARCUS being first duly sworn deposes and says, That he is the attorney for plaintiffs in the above entitled action. On the 16th day of June 1939 Judgement was entered in said action against D. H. Smith defendant. That said Judgement was recorded in Volume 594 page 239 in books and records of Ventura County. That said defendant D. H. Smith and Delos H. Smith is one and the same person, and that the initial D. in said name of D. H. Smith is Delos H. Smith and that said defendant D. H. Smith is known as Delos H. Smith, all as appears in said Judgement.

DAVID C. MARCUS

SUBSCRIBED & SWORN TO before me this 9th day of Aug. 1939.

(Notarial Seal) A. M. GEDIMAN, Notary Public

#816. Copy of original recorded at request of D. C. MARCUS, AUG.9,1939, 10:36 A.M. Copyist #106. Compared, MAME B. BEATTY, COUNTY RECORDER, BY ) DEPUTY. $1.00-2.M.

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U.S.I.R.D.$.50 Cancelled.

IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA, IN AND FOR THE COUNTY OF LOS ANGELES

TROMPETER & CO., a corporation, Plaintiff vs. RAYMOND L. WALES, et al., Defendants) (#1715) (C-253) COMMISSIONER'S CERTIFICATE OF SALE ON FORECLOSURE No. 432546

I, C. A. PAGE, Commissioner appointed by the Court, do hereby certify that, under and by virtue of an order of sale issued out of the Superior Court of the County of Los Angeles, State of California, in the action of TROMPETER & CO., a corporation, Plaintiff, against County of Los Angeles, a body politic and corporate and a political subdivision of the State of California filed stipulation re taxes, and RAYMOND L. WALES, EDITH E. WALES, CITIZENS TRUST & SAVINGS BANK OF LOS ANGELES, a xxxx national banking association, as trustee, and R. G. BOYD, Defendants, rendered on the 20th day of June, A.D., 1939, and entered on the 22nd day of June, A.D., 1939, duly attested the 27th day of June, A.D. 1939, and to me, as such Commissioner, duly directed and delivered, whereby I was commanded to sell the property hereinafter described, according to law and apply the proceeds of such sale towards the satisfaction of the judgments in said action, amounting to the sum of Two Hundred and 08/100 ($200.08) Dollars Lawful Money of the United States with interest and costs of suit, I duly levied on, and on the 31st day of July, A.D., 1939, at 10:30 o'clock A.M., at the eastern and Spring Street Entrance to the Los Angeles County Hall of Justice, in the City of Los Angeles, in said County of Los Angeles, I duly sold at Public Auction, according to law, and after due and legal notice, to TROMPETER & CO., a corporation, who made the highest bid therefor at such sale, for the sum of Two Hundred Thirty-seven and 43/100 ($237.43) Dollars; which was the whole sum paid by TROMPETER & CO., a corporation, the Real Estate in said Order of Sale, lying and being in the said County of Los Angeles, State of California, and described as follows, to-wit: Lot 28 of Tract No. 1273, as per map recorded in Book 21, Pages 126 and 127 of Maps, Records in the office of the County Recorder of said Los Angeles County; together with the tenements, hereditaments and appurtenances thereunto belonging, or in any wise appertaining, and I do hereby certify that the said property was sold in one lot or parcel, and that the sum of Two Hundred Thirty-seven and 43/100 ($237.43) Dollars, was the highest bid made, and the whole price paid therefor, and that the same is subject to redemption in like Lawful Money of the United States pursuant to

L. 2848

QUITCLAIM DEED R/W 1672
from
SOUTHERN COUNTIES GAS CO. OF CAL.
to
The L.A.City High School District
of Los Angeles Co.

REALTY SECTION, BUSINESS DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES 54, CALIFORNIA

DOCUMENT No. _____
RECORDED AT REQUEST OF

OCT 29 1953
52 MIN PAST 11 A.M.

OFFICIAL RECORDS
County of Los Angeles, California
FEE $ _____
MAME B. BEATTY, County Recorder
By _____ Deputy

Free - 6

R/W No. 1672

# QUITCLAIM DEED

SOUTHERN COUNTIES GAS COMPANY OF CALIFORNIA, a corporation duly organized and existing under the laws of the State of California, and having its principal place of business in the City of Los Angeles, County of Los Angeles, State of California, in consideration of the sum of Ten Dollars ($10.00), receipt of which is acknowledged, does hereby forever quitclaim to the Los Angeles City High School District of Los Angeles County, including successors or assigns, that certain real property in the County of Los Angeles, State of California, described as follows:

A strip of land 4 feet in width and being that portion of Lot III of Subdivision "M" of original partition of the Rancho Los Palos Verdes granted to Southern Counties Gas Company of California by Louie M. Sepulveda and Myrtle R. Sepulveda, June 29, 1934, and recorded in Book 12847 at Page 240 of Official Records of said County.

Excepting and reserving therefrom all that portion of said 4 foot strip of land lying within the boundaries of 14th Street as it now exists.

This is official business, filed for benefit of Board of Education of the city of Los Angeles under Government Code Section 6103.

SIGNED on September 29, 1953.

SOUTHERN COUNTIES GAS COMPANY
OF CALIFORNIA

By F B Knight
Vice President

And John A. Day
Assistant Secretary

ATTEST FOR SIGNATURE
CJB

19-D Rev.8-1-51

...in and for said County and State.

I, ARCL BURNS, Director of Real Estate, Board of Education of Los Angeles City High School District of Los Angeles County, hereby certify that the Quitclaim Deed dated September 29, 1953, from SOUTHERN COUNTIES GAS COMPANY OF CALIFORNIA, a corporation duly organized and existing under the laws of the State of California, forever quitclaiming to LOS ANGELES CITY HIGH SCHOOL DISTRICT OF LOS ANGELES COUNTY, its successors or assigns, a strip of land 4 feet in width and being that portion of Lot III of Subdivision "M" of original partition of the Rancho Los Palos Verdes, EXCEPTING and RESERVING THEREFROM all that portion of said 4 foot strip of land lying within the boundaries of 14th Street as it now exists, for the San Pedro High School Site, was accepted by the Board of Education of the City of Los Angeles at a meeting of said Board on October 22, 1953.

Arol Burns

Subscribed and sworn to before me
this 27th day of October, 1953.

Frank F. Baker Jr.
Notary Public in and for the County
of Los Angeles, State of California

My Commission Expires April 26, 1957

lt

RUTH MASTERS

a Notary Public in and for said County and State, personally appeared F. B. WRIGHT known to me to be the Vice President, and JOHN D. DAY known to me to be the Assistant Secretary of the SOUTHERN COUNTIES GAS COMPANY OF CALIFORNIA

the Corporation that executed the within Instrument, known to me to be the persons who executed the within Instrument, on behalf of the Corporation herein named, and acknowledged to me that such Corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the and year in this certificate first above written.

Ruth F. Masters
Notary Public in and for said County and State.

ACKNOWLEDGMENT CORP. — PRES & SEC — WOLCOTTS FORM 226

PLACE IN  IN 

# Grant Deed

390 1-53 THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

Affix I. R. S. $ 1.10

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

TERESA C. GALLAGHER, a single woman,

hereby GRANT(S) to LOS ANGELES CITY HIGH SCHOOL DISTRICT OF LOS ANGELES COUNTY,

the following described real property in the state of California, county of Los Angeles:

The north 46 feet of Lot 14 in block 22 of Peck's Grand View Tract, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 8 page 79 of Maps, in the office of the county recorder of said county.

SUBJECT TO:
1. All taxes for the fiscal year 1954-1955, a lien not yet payable.
2. Covenants, conditions, restrictions and easements of record.

This is official business, filed for benefit of Board of Education of the city of Los Angeles under Government Code Section 6103.

Dated: June 16, 1954

Teresa C. Gallagher
Teresa C. Gallagher

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On June 17 1954
before me, the undersigned, a Notary Public in and for said County and State, personally appeared
Teresa C. Gallagher

known to me to be the person whose name is subscribed to the within instrument and acknowledged that she executed the same.

WITNESS my hand and official seal.

(Seal)

SPACE BELOW FOR RECORDER'S USE ONLY

DOCUMENT No. 1642
RECORDED AT REQUEST OF
TITLE INSURANCE & TRUST CO.
JUL 23 1954 AT 8 A. M.
IN OFFICIAL RECORDS
County of Los Angeles, California
Fee $
MAME B. BEATTY, County Recorder
By Deputy

1642

WHEN RECORDED MAIL TO
LOS ANGELES CITY SCHOOL BOARD OF ED.
P.O.Box 2298, Terminal Annex
Los Angeles 54, California

Title Order No.
Escrow or Loan No. 4089211-PM

Title 4 0

I, AROL BURNS, Director of Real Estate, Board of Education of Los Angeles City High School District of Los Angeles County, hereby certify that the Grant Deed dated June 16, 1954 from TERESA C. GALLAGHER, a single woman, conveying the north 40 feet of Lot 14, in Block 22 of Peck's Grand View Tract to LOS ANGELES CITY HIGH SCHOOL DISTRICT OF LOS ANGELES COUNTY, as a portion of Henry Dana Junior High School Site, was accepted by the Board of Education of the City of Los Angeles at its meeting held on July 6, 1954.

Arol Burns

Subscribed and sworn to before me
this 20th day of July, 1954.

Frank J. Baker Jr.
Notary Public in and for the County
of Los Angeles, State of California
My Commission Expires April 28, 1957

File 4586
ss

**SUBJECT TO:**
1. **All taxes for the fiscal year 1954-1955, a lien not yet payable.**
2. **Covenants, conditions, restrictions and easements of record.**

This is official business, filed for benefit of Board of Education of the city of Los Angeles under Government Code Section 6103.

Dated: June 16, 1954

Teresa C. Gallagher
Teresa C. Gallagher

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On June 17 1954 before me, the undersigned, a Notary Public in and for said County and State, personally appeared Teresa C. Gallagher

known to me to be the person whose name is subscribed to the within instrument and acknowledged that she executed the same.

WITNESS my hand and official seal.

(Seal)

16412

SPACE BELOW FOR RECORDER'S USE ONLY

DOCUMENT No. 1642
RECORDED AT REQUEST OF
TITLE INSURANCE & TRUST CO.

JUL 23 1954 AT 8 A. M.

IN OFFICIAL RECORDS
County of Los Angeles, California

Fee $
MAME B. BEATTY, County Recorder

By Deputy

WHEN RECORDED MAIL TO

LOS ANGELES CITY SCHOOL BOARD OF ED.
P.O.Box 2298, Termina Annex
Los Angeles 54, California

Title Order No.

Escrow or Loan No. 4089211-PM

File 4-0

SP[illegible] ABOVE [illegible] RECORDER'S USE



PLACE [illegible] AMPS IN THIS SPACE

# Grant Deed

Affix I. R. S. $ 1.10

e1

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

GEORGE CARTER, an unmarried man, as his separate property,

hereby GRANT(S) to

LOS ANGELES CITY HIGH SCHOOL DISTRICT OF LOS ANGELES COUNTY,

the following described real property in the state of California, county of Los Angeles,

Lots 14 and 15 in Block 22 of Peck's Grand View Tract, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 8 page 79 of Maps, in the office of the county recorder of said county.

EXCEPTING therefrom the North 46 feet of said Lot 14.

SUBJECT TO:

1. All taxes for the fiscal year 1954-1955, a lien not yet payable.
2. Covenants, conditions, restrictions and easements of record.

Dated: July 22, 1954

George Carter
GEORGE CARTER

This is official business, filed for benefit of Board of Education of the city of Los Angeles under Government Code Section 6103.

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss

On July 24, 1954 before me, the undersigned, a Notary Public in and for said County and State, personally appeared

GEORGE CARTER

known to me to be the person whose name is subscribed to the within instrument and acknowledged that he executed the same.

WITNESS my hand and official seal.

(Seal) Howard O'Sullivan
Notary Public in and for said County and State

1500

SPACE BELOW FOR RECORDER'S USE ONLY

DOCUMENT No. 1500
RECORDED AT REQUEST OF
TITLE INSURANCE & TRUST CO.
AUG 20 1954 AT 8 A. M.

IN OFFICIAL RECORDS
County of Los Angeles, California

Fee $
MAME B. BEATTY, County Recorder

By Deputy

WHEN RECORDED MAIL TO

L.A. City Board of Education
P. O. Box 2238, Terminal Annex
Los Angeles 54, California

Title Order No. 4101551 AWF

Escrow or Loan No.

executed the same.

WITNESS my hand and official seal.

(Seal) Howard Spiller

Notary Public in and for said County and State

WHEN RECORDED MAIL TO

L.A. City Board of Education
P. O. Box 2238, Terminal Annex
Los Angeles 54, California

IN OFFICIAL RECORDS
County of Los Angeles, California

Fee $

MAME B. BEATTY, County Recorder

By Deputy

Title Order No. 4101551 AWF

Escrow or Loan No.

I, AROL BURNS, Director of Real Estate, Board of Education of Los Angeles City High School District of Los Angeles County, hereby certify that the Grant Deed dated July 22, 1954 from GEORGE CARTER, an unmarried man, as his separate property, conveying Lots 14 and 15 in Block 22 of Peck's Grand View Tract, excepting therefrom the North 46 feet of said Lot 14 to LOS ANGELES CITY HIGH SCHOOL DISTRICT OF LOS ANGELES COUNTY, as a portion of Richard Henry Dana Junior High School Site - First Addition, was accepted by the Board of Education of the City of Los Angeles at its meeting held on August 12, 1954.

Arol Burns

Subscribed and sworn to before me
this 19th day of August, 1954.

Frank F. Baker Jr.

Notary Public in and for the County
of Los Angeles, State of California

My Commission Expires April 28, 1957

File 4597
ss

SPACE ABOVE THIS LINE FOR RECORDER'S USE



AFFIX INTERNAL REVENUE STAMPS IN THIS SPACE

# Grant Deed

Affix I. R. S. $ el

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

JOE PIELAGO and FAY M. PIELAGO, his wife,

hereby GRANT(S) to

LOS ANGELES CITY HIGH SCHOOL DISTRICT OF LOS ANGELES COUNTY

the following described real property in the state of California, county of Los Angeles,

Lot 13 in Block 22 of Pecks Grand View Tract, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 8 page 79 of Maps, in the office of the county recorder of said county.

SUBJECT TO:

1. All taxes for the fiscal year 1954-1955, a lien not yet payable.
2. Covenants, conditions, restrictions and easements of record.

This is official business, filed for benefit of Board of Education of the city of Los Angeles under Government Code Section 6103.

Dated: June 28, 1954

Joe Pielago
JOE PIELAGO

Fay M. Pielago
FAY M. PIELAGO

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On July 3, 1954 before me, the undersigned, a Notary Public in and for said County and State, personally appeared Joe Pielago and Fay M. Pielago

known to me to be the person S whose name S are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

(Seal) Adeline F. Hill
Notary Public in and for said County and State.

ADELINE F. HILL, Notary Public
Principal Office in Los Angeles County
My Commission Expires Jan. 1, 1958

SPACE BELOW FOR RECORDER'S USE ONLY

DOCUMENT No. 1462
RECORDED AT REQUEST OF
TITLE INSURANCE & TRUST CO.
AUG 27 1954 AT 8 A. M.

IN OFFICIAL RECORDS
County of Los Angeles, California

Fee $
MAME B. NEATTY, County Recorder
By Deputy

WHEN RECORDED MAIL TO
L.A. City Board of Education
P.O. Box 2298
Los Angeles 54, Calif.

Title Order No. 4097607 ANF
Escrow or Loan No.

1462

SPACE ABOVE THIS LINE FOR RECORDER'S USE



AFFIX INTERNAL REVENUE STAMPS IN THIS SPACE

# Grant Deed

Affix I. R. S. $ .50

398 1-53 THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

JOE PIELAGO and FAY M. PIELAGO, his wife,

hereby GRANT(S) to

LOS ANGELES CITY HIGH SCHOOL DISTRICT OF LOS ANGELES COUNTY

I, ARCL BURNS, Director of Real Estate, Board of Education of Los Angeles City High School District of Los Angeles County, hereby certify that the Grant Deed dated June [illegible], 1954 from JOE PIELAGO and FAY M. PIELAGO, his wife, conveying Lot [illegible] of Peeke's Grand View Tract to LOS ANGELES CITY HIGH SCHOOL DISTRICT OF LOS ANGELES COUNTY, as a portion of Richard Henry Dana Junior High School Site, was accepted by the Board of Education of the City of Los Angeles at its meeting held on July 26, 1954.

Arol Burns

Subscribed and sworn to before me this [illegible] day of [illegible], 1954.

Notary Public in and for the County of Los Angeles, State of California

My commission expires April 28, 1957

File 4098

On July 3, 1954 before me, the undersigned, a Notary Public in and for said County and State, personally appeared Joe Pielago and Fay M. Pielago

known to me to be the person S whose name S are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

(Seal) Adeline F. Hill

Notary Public in and for said County and State.

ADELINE F. HILL, Notary Public

DOCUMENT No. 1462
RECORDED AT REQUEST OF
TITLE INSURANCE & TRUST CO.
AUG 27 1954 AT 8 A. M.

IN OFFICIAL RECORDS
County of Los Angeles, California

Fee $.....
MAME B. SEATTY, County Recorder

By ..... Deputy

WHEN RECORDED MAIL TO

L.A. City Board of Education
P.O. Box 2298
Los Angeles 54, Calif.

Title Order No. 4097607 ANF

Escrow or Loan No.

J 1179

# CERTIFICATION 3527

FREE S

IA }
GELES, } ss.

ERSON, City Clerk of the City of Los Angeles and ex-officio Clerk of the City Council

les, do hereby certify and attest the foregoing to be a full, true and correct copy of the

DINANCE No. 110,999

ad that I have carefully compared the same with the original.

In Witness Whereof, I have hereunto set my hand and affixed the Seal of the City of Los Angeles, this 18th day of March, 1958.

Walter C. Peterson

City Clerk of the City of Los Angeles

By Charles G. Stimbroff

Deputy

---

Ord. First Time--3-4-58
ORDINANCE NO. 110,999

An ordinance of the City of Los Angeles ordering the vacation of Meyler Street (San Pedro) from Seventeenth Street to the terminus of Meyler Street approximately 132 feet northerly of Seventeenth Street, as contemplated by Ordinance No. 107,-970.

THE PEOPLE OF THE CITY OF LOS ANGELES DO ORDAIN AS FOLLOWS.

Section 1. The City Council of the City of Los Angeles, having heard the evidence offered in relation to the proposed vacation of Meyler Street (San Pedro) from Seventeenth Street to the terminus of Meyler Street approximately 132 feet northerly of Seventeenth Street, hereby finds, from all the evidence submitted that the public street area above referred to and proposed to be vacated by Ordinance No. 107,970, approved August 20, 1956, is unnecessary for present or prospective public street purposes. For full particulars reference is hereby made to said Ordinance No. 107,970 and to map filed in Volume 5, Page 43, of "Street Vacation Maps" on file in the office of the City Clerk. It is therefore ordered that said public street area be and the same is hereby vacated.

Section 2. The City Clerk shall certify to the passage of this ordinance and cause the same to be published in some daily newspaper printed and published in the City of Los Angeles.

I hereby certify that the foregoing ordinance was passed by the Council of the City of Los Angeles, at its meeting of February 21, 1958.

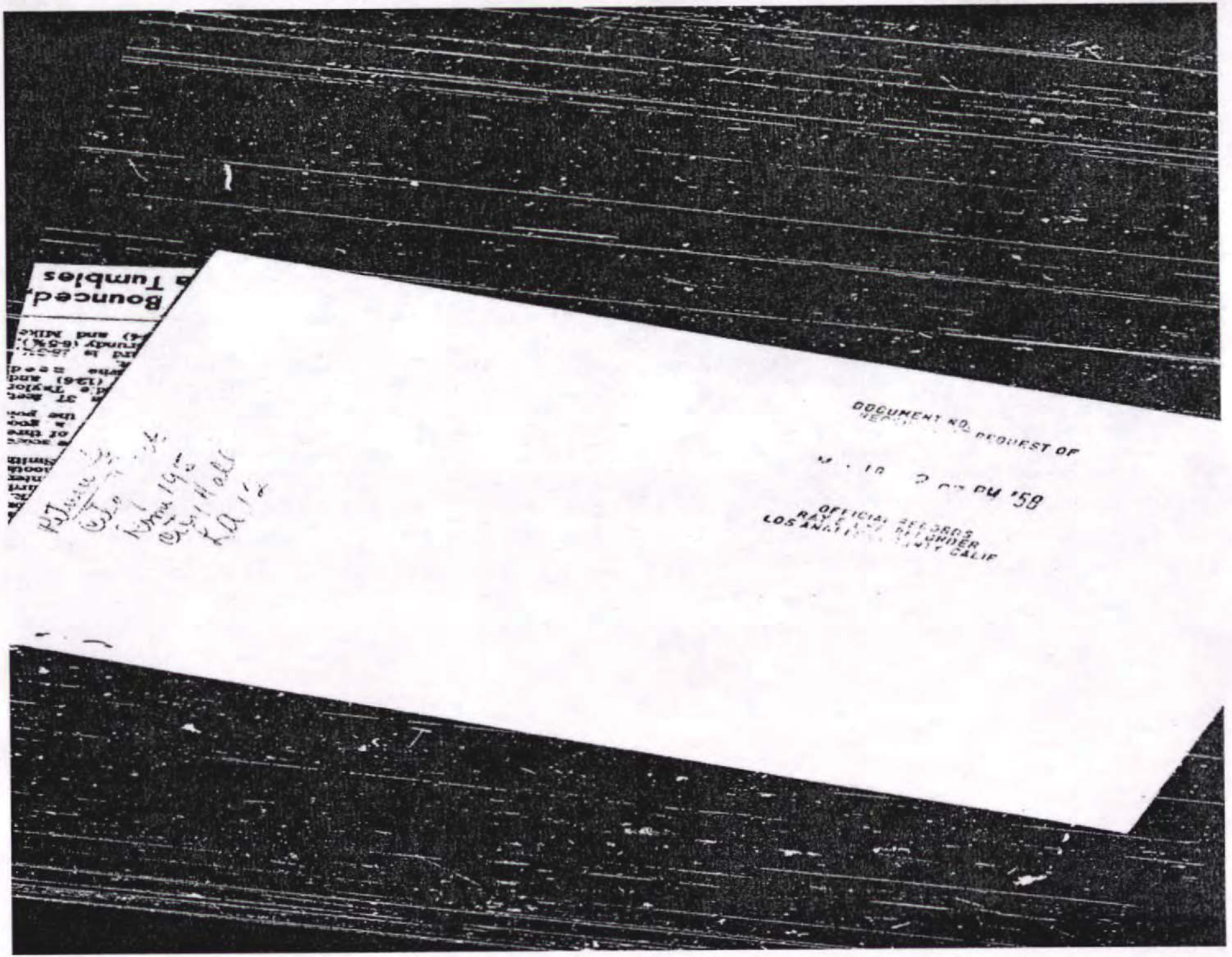
WALTER C. PETERSON
City Clerk
By A. M. MORRIS
Deputy

Approved March 5, 1958.
NORRIS POULSON
Mayor

File No. 59110

Pub. March 13, 1958.

3.18.58



RECORDING REQUESTED BY

1805

RECORDED IN OFFICIAL RECORDS OF LOS ANGELES COUNTY, CALIF. FOR TITLE INSURANCE & TRUST CO.
MAR 24 1959 AT 8 A.M.
RAY E. LEE, County Recorder

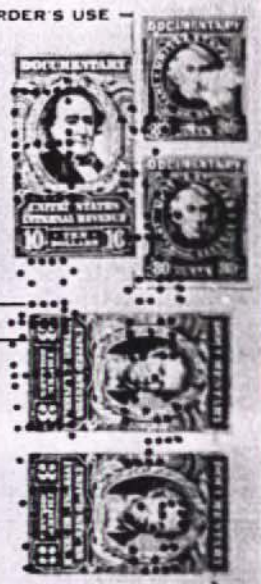
FREE 2D

WHEN RECORDED MAIL TO

L ESTATE BRANCH, BUSINESS DIVISION
Angeles City Board of Education
). Box 2298, Terminal Annex
s Angeles 54, California

SPACE ABOVE THIS LINE FOR RECORDER'S USE

AFFIX I.R.S. $ 17.60 IN THIS SPACE




# Grant Deed

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

Isamu Yasuda and Reiko Yasuda, husband and wife

hereby GRANT(S) to

Los Angeles City High School District of Los Angeles County

the following described real property in the City of Los Angeles, county of Los Angeles, state of California:

Lot 8 in Block 22 of Peck's Grand View Tract, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in Book 8, Page 79 of Maps, in the office of the County Recorder of said County.

Subject to:

Second half of taxes for 1958-59

This is official business filed for benefit of Board of Education of the City of Los Angeles under Government Code Section 6103.

Dated: January 30, 1959

Isamu Yasuda
Isamu Yasuda

Reiko Yasuda
Reiko Yasuda

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss

On January 5, 1959 before me, the undersigned, a Notary Public in and for said County and State, personally appeared

Isamu Yasuda
Reiko Yasuda

known to me to be the person s whose name s are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

Signature Valgene E. Wright
Notary Public in and for said County and State

If executed by a Corporation the Corporation Form of Acknowledgment must be used.

Title Order No.

Escrow No. 3-7-11

File 7528 - San Pedro High School - 1st Add.

RECORDING REQUESTED BY

1815

RECORDED IN OFFICIAL RECORDS OF LOS ANGELES COUNTY

FREE 2D

I, [illegible], Director of Real Estate, Board of Education of Los Angeles City School District of Los Angeles County, hereby certify that the Grant Deed dated January 30, 1959, from [illegible] and ELIKO YAS DA, husband and wife, conveying Lot 2 of Block 23 of Peck's Ocean View Tract to LOS ANGELES CITY SCHOOL DISTRICT OF LOS ANGELES COUNTY, as a portion of the San Pedro High School, was accepted by the Board of Education of the City of Los Angeles at its meeting held on February 26, 1959.

Subscribed and sworn to before me this 2nd day of March, 1959.

Charles B. Steen

Notary Public in and for said County of Los Angeles, State of California.

My Commission Expires Apr 14 1961

instrument and acknowledged that they executed the same.
WITNESS my hand and official seal.

(Seal) Marjorie C Wright
Notary Public in and for said County and State

If executed by a Corporation the Corporation Form of Acknowledgment must be used.

My Commission Expires [illegible]

Title Order No.

Escrow No. [illegible]

File #5258 - San Pedro High School - 1st Add.

328

RECORDING REQUESTED BY

WHEN RECORDED MAIL TO

Real Estate Branch, Business Division
Los Angeles City Board of Education
P.O. Box 2298, Terminal Annex
Los Angeles 54, California

RECORDED IN OFFICIAL RECORDS
OF LOS ANGELES COUNTY, CALIF.
FOR TITLE INSURANCE & TRUST CO.
MAR 27 1959 AT 8 A.M.
RAY E. LEE, County Recorder

FREE

SPACE ABOVE THIS LINE FOR P



AFFIX I.R.S. $ 7.15 IN THIS SPACE

# Grant Deed

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which i hereby acknowledged,
Joe Solis and Carmen Solis, husband and wife

hereby GRANT(S) to
Los Angeles City High School District of Los Angeles County

the following described real property in the City of Los Angeles,
county of Los Angeles, state of California:

Lot 7 in block 22 of Peck's Grand View Tract, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in book 8 page 79 of Maps, in the office of the County Recorder of said County.

Subject to:

1958-59 taxes

This is official business, filed for benefit of Board of Education of the city of Los Angeles under Government Code Section 6103.

Dated: February 18, 1959

Joe Solis
Joe Solis

Carmen Solis
Carmen Solis

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On 3/5/59 before me, the undersigned, a Notary Public in and for said County and State, personally appeared
Joe Solis
Carmen Solis
known to me to be the person s whose name s are subscribed to the within instrument and acknowledged that they executed the same.
WITNESS my hand and official seal.

(Seal)
Notary Public in and for said County and State

My commission expires 1962

*If executed by a Corporation the Corporation Form of Acknowledgment must be used.*

Title Order No.

Escrow No. 5009550

298-4-58 File #5257 - San Pedro H.S. - 1st Add.

I, AROL BURNS, Director of Real Estate, Board of Education of Los Angeles City High School District of Los Angeles County, hereby certify that the Grant Deed dated February 18, 1959, from JOE SOLIS and CARMEN SOLIS, husband and wife, conveying Lot 7 in Block 22 of Peck's Grand View Tract, as a portion of San Pedro High School, was accepted by the Board of Education of the City of Los Angeles at its meeting held on March 19, 1959.

Arol Burns

Subscribed and sworn to before me
this 23rd day of March, 1959.

Charles E. Skelps
Notary Public in and for the County
of Los Angeles, State of California.

My Commission Expires April 14, 1961

rk


TITLE INSURANCE
AND
TRUST COMPANY

ALAMEDA COUNTY
1510 Webster Street, Oakland
1165 "A" Street, Hayward

FRESNO COUNTY
1246 "L" Street, Fresno
1469 Belmont Avenue, Fresno

IMPERIAL COUNTY
600 Main Street, El Centro

INYO-MONO COUNTIES
149 North Edwards Street, Independence

KERN COUNTY
17th and "I" Streets, Bakersfield
1331 Chester Avenue, Bakersfield

ORANGE COUNTY
800 North Main Street, Santa Ana

RIVERSIDE COUNTY
3490 Tenth Street, Riverside

SAN BERNARDINO COUNTY
480 Court Street, San Bernardino

SAN DIEGO COUNTY
1028 Second Avenue, San Diego

SAN LUIS OBISPO COUNTY
1141 Chorro Street, San Luis Obispo

SANTA BARBARA COUNTY
36 East Figueroa Street, Santa Barbara

TULARE COUNTY
320 West Main Street, Visalia

VENTURA COUNTY
101 South Chestnut Street, Ventura
542 South "A" Street, Oxnard

RECORDING REQUESTED BY

WHEN RECORDED MAIL TO

eal Estate Branch, Business Division
os Angeles City Board of Education
.O. Box 2298, Terminal Annex
os Angeles 54, California

2110

FREE 2 W

RECORDED IN OFFICIAL RECORDS
OF LOS ANGELES COUNTY, CALIF.
FOR TITLE INSURANCE & TRUST CO.
APR 7 1959 AT 8 A.M.
RAY E. LEE, County Recorder

SPACE ABOVE THIS LINE FOR RECORDER'S USE

AFFIX I.R.S. $ 9.35 IN THIS SPACE

# Grant Deed

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

Sudie B. Christensen, a widow, and Belle L. McKinney, a single woman, mother and daughter

hereby GRANT(S) to

Los Angeles City High School District of Los Angeles County

the following described real property in the City of Los Angeles, county of Los Angeles, state of California:

Lot 6 in block 22 of Peck's Grand View Tract, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in book 8 page 79 of Maps, in the office of the County Recorder of said County.

Subject to:

Taxes for 1959-1960, a lien not yet payable.

This is official business, filed for benefit of Board of Education of the city of Los Angeles under Government Code Section 6103.

Dated: February 20, 1959

Mrs Sudie Belle Christensen
Sudie B. Christensen

Mrs Belle L. McKinney
Belle L. McKinney

STATE OF CALIFORNIA
COUNTY OF Los Angeles } SS.

On March 16th 1959 before me, the undersigned, a Notary Public in and for said County and State, personally appeared

Sudie B. Christensen
Belle L. McKinney

, known to me to be the person S whose name S are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

(Seal) Notary Public in and for said County and State
My Commission Expires Feb. 1, 1961

If executed by a Corporation the Corporation Form of Acknowledgment must be used.

Title Order No.

Escrow No. 5009561

298-4-58

File #5256 - San Pedro H.S. - 1st Add.

RECORDING REQUESTED BY

2110

FREE 2W

I, AROL BURNS, Director of Real Estate, Board of Education of Los Angeles City High School District of Los Angeles County, hereby certify that the Grant Deed dated February 20, 1959, from SUDIE B. CHRISTENSEN, a widow, and BELLE L. MC.KINNEY, a single woman, mother and daughter, conveying Lot 6 in Block 22 of Peck's Grand View Tract to LOS ANGELES CITY HIGH SCHOOL DISTRICT OF LOS ANGELES COUNTY, as a portion of San Pedro High School, was accepted by the Board of Education of the City of Los Angeles at its meeting held on April 2, 1959.

Arol Burns

Subscribed and sworn to before me this 2nd day of April, 1959.

Charles B. Pfeiler

Notary Public in and for the County of Los Angeles, State of California.

My Commission Expires April 14, 1961

rk

...Mc Kinney

..... known to me to be the person s..... whose name s are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

(Seal) Louis J. Olson

Notary Public in and for said County and State

My Commission Expires Feb. 1, 1961

*If executed by a Corporation the Corporation Form of Acknowledgment must be used.*

Title Order No.

Escrow No. 5009568

File #5256 - San Pedro H.S. - 1st Add.

RECORDING REQUESTED BY

2158

WHEN RECORDED MAIL TO

Real Estate Branch, Business Division
Los Angeles City Board of Education
P.O. Box 2298, Terminal Annex
Los Angeles 54, California

RECORDED IN OFFICIAL RECORDS OF LOS ANGELES COUNTY, CALIF. FOR TITLE INSURANCE & TRUST CO.
APR 10 1959 AT 8 A.M.
RAY E. LEE, County Recorder

FEE $ D

SPACE ABOVE THIS LINE FOR RECORDER'S USE




AFFIX I.R.S. $ 52.25 IN THIS SPACE



# Grant Deed

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

Everett T. Williams and Betty Williams, husband and wife

hereby GRANT(S) to

Los Angeles City High School District of Los Angeles County

the following described real property in the county of Los Angeles, City of Los Angeles, state of California:

Lots 1 and 2 of Block 22 of Peck's Grand View Tract, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in book 8 page 79 of Maps in the office of the County Recorder of said County.

subject to:

Second half of taxes for 1958-59.

This is official business, filed for benefit of Board of Education of the city of Los Angeles under Government Code Section 6103.

Dated March 9, 1959

Everett T. Williams
Everett T. Williams

Betty Williams
Betty Williams

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On March 11, 1959 before me, the undersigned, a Notary Public in and for said County and State, personally appeared

Everett T. Williams
Betty Williams

known to me to be the person S whose name S are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

(Seal)

Notary Public in and for said County and State

My Commission Expires October 11, 1962

If executed by a Corporation the Corporation Form of Acknowledgment must be used

Title Order No.

Escrow No.

Title 6-32 - San Pedro High School - 1st Addi.

RECORDING REQUESTED BY

2158

RECORDED IN OFFICIAL RECORDS OF LOS ANGELES COUNTY, CALIF. FOR TITLE INSURANCE & TRUST CO.
APR 10 1959 AT 8 A.M.
RAY E. LEE, County Recorder

FREE D

WHEN RECORDED MAIL TO

Real Estate Branch, Business Division
Los Angeles City Board of Education
P.O. Box 2298, Terminal Annex
Los Angeles 54, California

SPACE ABOVE THIS LINE FOR RECOR

I, AROL BURNS, Director of Real Estate, Board of Education of Los Angeles City High School District of Los Angeles County, hereby certify that the Grant Deed dated March 9, 1959, from EVERETT T. WILLIAMS and BETTY WILLIAMS, husband and wife, conveying lots 1 and 2 of Block 22 of Peck's Grand View Tract to LOS ANGELES CITY HIGH SCHOOL DISTRICT OF LOS ANGELES COUNTY, as a portion of San. Pedro High School, was accepted by the Board of Education of the City of Los Angeles at its meeting held on April 2, 1959.

Arol Burns

Subscribed and sworn to before me
this 6 day of April, 1959.

Charles B. Phelps
Notary Public in and for the County
of Los Angeles, State of California

My Commission Expires April 14, 1961

rk

398-4-58 File #5252 - San Pedro High School - 1st Add.

2036

RECORDING REQUESTED BY

WHEN RECORDED MAIL TO

Real Estate Branch, Business Division
Los Angeles City Board of Education
P.O. Box 2298, Terminal Annex
Los Angeles 54, California

RECORDED IN OFFICIAL RECORDS OF LOS ANGELES COUNTY, CALIF. FOR TITLE INSURANCE & TRUST CO.
APR 15 1959 AT 8 A.M.
RAY E. LEE, County Recorder

FREE S

SPACE ABOVE THIS LINE FOR R



AFFIX I.R.S. $ 7.15 IN THIS SPACE

# Grant Deed

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

Richard P. Widner and Armida Widner, husband and wife

hereby GRANT(S) to

Los Angeles City High School District of Los Angeles County

the following described real property in the county of Los Angeles, City of Los Angeles State of California:

Lot 4 in block 22 of Peck's Grand View Tract, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in book 8 page 79 of Maps, in the office of the County Recorder of said County.

Subject to:

1958-59 taxes

This is official business, filed for benefit of Board of Education of the city of Los Angeles under Government Code Section 6103.

Dated: February 18, 1959

Richard P. Widner

Armida Widner

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On 3/17/59 before me, the undersigned, a Notary Public in and for said County and State, personally appeared

Richard P. Widner
Armida Widner

known to me to be the person S whose name S are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

(Seal)

Notary Public in and for said County and State

If executed by a Corporation the Corporation Form of Acknowledgement must be used

Title Order No.

Escrow No. 5[illegible]

File #5294 - San Pedro H.S. - 1st Add.

This is official business, filed for benefit of Board of Education of the City of Los Angeles under Government Code Section 6103.

Dated: February 18, 1959

Richard P. Widner

Armida Widner

STATE OF CALIFORNIA )
COUNTY OF Los Angeles ) ss

On 3/17/59 before me, the undersigned, a Notary Public in and for said County and State, personally appeared Richard P. Widner, Armida Widner, known to me to be the person s whose name s are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

(Seal) Notary Public in and for said County and State

*If executed by a Corporation the Corporation Form of Acknowledgment must be used.*

Title Order No.

Escrow No. 5209581

File #5254 - San Pedro H.S. - 1st Add.

I, AROL BURNS, Director of Real Estate, Board of Education of Los Angeles City High School District of Los Angeles County, hereby certify that the Grant Deed dated February 18, 1959, from RICHARD P. WIDNER and ARMIDE WIDNER, husband and wife, conveying Lot 4 in Block 22 of Beck's Grani View Tract to LOS ANGELES CITY HIGH SCHOOL DISTRICT OF LOS ANGELES COUNTY, as a portion of San Pedro High School, was accepted by the Board of Education of the City of Los Angeles at its meeting held on April 9, 1959.

Arol Burns

Subscribed and sworn to before me this 17 day of March, 1959.

Notary Public in and for the County of Los Angeles, State of California.

My commission expires [illegible], 1961

rk

1957

RECORDING REQUESTED BY

WHEN RECORDED MAIL TO

Real Estate Branch, Business Division
Los Angeles City Board of Education
P. O. Box 2298, Terminal Annex
Los Angeles 54, California

RECORDED IN OFFICIAL RECORDS
OF LOS ANGELES COUNTY, CALIF.
FOR TITLE INSURANCE & TRUST CO.
APR 28 1959 AT 8 A.M.
RAY E. LEE, County Recorder

FREE / G

SPACE ABOVE THIS LINE FOR RE

AFFIX I.R.S. $ 20.90 IN THIS SPACE

# Grant Deed

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

NICK FUNCICH and MARY FUNCICH, husband and wife

hereby GRANT(S) to

Los Angeles City High School District of Los Angeles County

the following described real property in the City of Los Angeles
county of Los Angeles state of California:

Lots 10 and 11 in block 22 of Peck's Grand View Tract, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 8 page 79 of Maps, in the office of the county recorder of said county.

Subject to:

Taxes for 1959-1960, a lien not yet payable.

This is official business, filed for benefit of Board of Education of the city of Los Angeles under Government Code Section 6103.

Dated: March 26, 1959

Nick Funcich

Nick Funcich

Mary Funcich

Mary Funcich

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss

On April 1, 1959 before me, the undersigned, a Notary Public in and for said County and State, personally appeared

Nick Funcich
Mary Funcich

known to me to be the person S whose name S are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

(Seal) George J. Petros
Notary Public in and for said County and State

My Commission Expires June 2?

If executed by a Corporation the Corporation Form of Acknowledgment must be used

Title Order No.

Escrow No. 511737

I, AROL BURNS, Director of Real Estate, Board of Education of Los Angeles City High School District of Los Angeles County, hereby certify that the Grant Deed dated March 26, 1959, from NICK FUNCICH and MARY FUNCICH, husband and wife, conveying Lots 10 and 11 in Block 22 of Peck's Grand View Tract to LOS ANGELES CITY HIGH SCHOOL DISTRICT OF LOS ANGELES COUNTY, as a portion of the San Pedro High School Site, was accepted by the Board of Education of the City of Los Angeles at its meeting held on April 20, 1959.

Arol Burns

Subscribed and sworn to before me this 22 day of April, 1959.

Charles B. Fiske

Notary Public in and for the County of Los Angeles, State of California.

My Commission Expires April 11, 1961

rk


TITLE INSURANCE AND TRUST COMPANY

ALAMEDA COUNTY
1510 Webster Street, Oakland
1165 "A" Street, Hayward

FRESNO COUNTY
1236 "J" Street, Fresno
1469 Belmont Avenue, Fresno

IMPERIAL COUNTY
600 Main Street, El Centro

INYO-MONO COUNTIES
119 North Edwards Street, Independence

KERN COUNTY
17th and "I" Streets, Bakersfield
1331 Chester Avenue, Bakersfield

ORANGE COUNTY
800 North Main Street, Santa Ana

RIVERSIDE COUNTY
3560 Tenth Street, Riverside

SAN BERNARDINO COUNTY
140 Court Street, San Bernardino

SAN DIEGO COUNTY
1028 Second Avenue, San Diego

SAN LUIS OBISPO COUNTY
1144 Osos Street, San Luis Obispo

SANTA BARBARA COUNTY
36 East Figueroa Street, Santa Barbara

TULARE COUNTY
320 West Main Street, Visalia

VENTURA COUNTY
101 South Chestnut Street, Ventura
542 South "A" Street, Oxnard

RECORDING REQUESTED BY

1754

1754

WHEN RECORDED MAIL TO

al Estate Branch, Business Division
)s Angeles City Board of Education
.O. Box 2298, Terminal Annex
os Angeles 54, California

RECORDED IN OFFICIAL RECORDS OF LOS ANGELES COUNTY, CALIF. FOR TITLE INSURANCE & TRUST CO.
MAY 4 1959 AT 8 A.M.
RAY E. LEE, County Recorder

FREE D

SPACE ABOVE THIS LINE FOR RE

AFFIX I.R.S. $ 7.70 IN THIS SPACE



# Grant Deed

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

Earl A. O. Kuhl, a widower

hereby GRANT(S) to

Los Angeles City High School District of Los Angeles County

the following described real property in the City of Los Angeles, county of Los Angeles, state of California:

Lot 12 in block 22 of Peck's Grand View Tract, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in book 8 page 79 of Maps, in the office of the County Recorder of said County.

Subject to:

Second half of 1958-59 taxes.

This is official business, filed for benefit of Board of Education of the city of Los Angeles under Government Code Section 6103.

Dated: February 18, 1959

Earl A. O. Kuhl
Earl A. O. Kuhl

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On April 7, 1959 before me, the undersigned, a Notary Public in and for said County and State, personally appeared

Earl A. O. Kuhl

known to me to be the person whose name is subscribed to the within instrument and acknowledged that he executed the same.

WITNESS my hand and official seal.

(Seal) Notary Public in and for said County and State

My commission expires [illegible]

If executed by a Corporation the Corporation Form of Acknowledgment must be used.

Title Order No.

Escrow No. 5009584

File #5201 - San Pedro High School - Lot Add.

RECORDING REQUESTED BY

1754

1754

WHEN RECORDED MAIL TO

Real Estate Business Division

RECORDED IN OFFICIAL RECORDS OF LOS ANGELES COUNTY, CALIF. FOR TITLE INSURANCE & TRUST CO. MAY 4 1959 AT 8 A.M.

FREE D

I, AROL BURNS, Director of Real Estate, Board of Education of Los Angeles City High School District of Los Angeles County, hereby certify that the Grant deed dated February 18, 1959, from EARL A. O. KUHL, a widow, conveying Lot 12 in Block 22 of Peck's Grand View Tract to LOS ANGELES CITY HIGH SCHOOL DISTRICT OF LOS ANGELES COUNTY, as a portion of San Pedro High School site, was accepted by the Board of Education of the City of Los Angeles at its meeting held on April 23, 1959.

Arol Burns

Subscribed and sworn to before me
this 27 day of April, 1959.

Notary Public in and for the County
of Los Angeles, State of California.

My Commission Expires April 14, 1961

rk

(Seal) Notary Public in and for said County and State

My Commission Expires April 14, 1961

If executed by a Corporation the Corporation Form of Acknowledgement must be used.

Title Order No.

Escrow No. 5009584

File #5261 - San Pedro High School - 1st Add.

RECORDING REQUESTED BY

2036

WHEN RECORDED MAIL TO

Real Estate Branch, Business Division
Los Angeles City Board of Education
O. Box 2298, Terminal Annex
s Angeles 54, California

2036

RECORDED IN OFFICIAL RECORDS
OF LOS ANGELES COUNTY, CALIF.
FOR TITLE INSURANCE & TRUST CO.
MAY 22 1959 AT 8 A.M.
RAY E. LEE, County Recorder

SPACE ABOVE THIS LINE FOR RE

AFFIX I.R.S. $ 7.15 IN THIS SPACE

# Grant Deed

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

GUSTAV H. LILLSTROM and TEKLA M. LILLSTROM, husband and wife

hereby GRANT(S) to

Los Angeles City High School District of Los Angeles County

the following described real property in the City of Los Angeles
county of Los Angeles state of California:

Lot 3 in block 22 of Peck's Grand View Tract, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 8 page 79 of Maps, in the office of the county recorder of said county.

Subject to:

Second half of taxes for 1958-1959 and
taxes for 1959-1960, a lien not yet payable.

This is official business, filed for
benefit of Board of Education of
the city of Los Angeles under
Government Code Section 6103.

Dated: April 6, 1959

Gustav H. Lillstrom

Gustav H. Lillstrom

Tekla M. Lillstrom

Tekla M. Lillstrom

STATE OF CALIFORNIA
COUNTY OF ~~Los Angeles~~ San Bernardino } ss.

On April 15, 1959 before me, the undersigned, a Notary Public in and for said County and State, personally appeared Gustav H. Lillstrom
Tekla M. Lillstrom

known to me to be the person S whose name S are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

(Seal) Notary Public in and for said County and State

If executed by a Corporation the Corporation Form of Acknowledgment must be used.

Title Order No.

Escrow No. 5009562-JHL

File No. 5253, San Pedro High, 1st Addition

RECORDING REQUESTED BY

2036

WHEN RECORDED MAIL TO

Real Estate Branch, Business Division
Los Angeles City Board of Education

RECORDED IN OFFICIAL RECORDS
OF LOS ANGELES COUNTY, CALIF.
FOR TITLE INSURANCE & TRUST CO.
MAY 22 1959 AT 8 A.M.
RAY E. LEE, County Recorder

FREE 1D

I, AROL BURNS, Director of Real Estate, Board of Education of Los Angeles City High School District of Los Angeles County, hereby certify that the Grant Deed dated April 6, 1959, from GUSTAV H. LILLSTROM and TEKLA M. LILLSTROM, husband and wife, conveying Lot 3 in Block 22 of Peck's Grand View Tract to LOS ANGELES CITY HIGH SCHOOL DISTRICT OF LOS ANGELES COUNTY, as a portion of the San Pedro High School, was accepted by the Board of Education of the City of Los Angeles at its meeting held on April 30, 1959.

Arol Burns

Subscribed and sworn to before me
this 6th day of May, 1959.

Charles B. Phelps
Notary Public in and for the County
of Los Angeles, State of California.

My Commission Expires April 14, 1961

rk

Notary Public in and for said County and State

If executed by a Corporation the Corporation Form of Acknowledgment must be used.

Title Order No.

Escrow No. 5009562-JHL

File No. 5253, San Pedro High, 1st Addition

1794

RECORDING REQUESTED BY

WHEN RECORDED MAIL TO

Real Estate Branch, Business Division
Los Angeles City Board of Education
P.O. Box 2298, Terminal Annex
Los Angeles 54, California

1794

RECORDED IN OFFICIAL RECORDS
OF LOS ANGELES COUNTY, CALIF.
FOR TITLE INSURANCE & TRUST CO.
JUN 9 1959 AT 8 A.M.
RAY E. LEE, County Recorder

FREE 2-G

SPACE ABOVE THIS LINE FOR RECORDER'S USE

AFFIX I.R.S. $ 2.70 IN THIS SPACE

# Grant Deed

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

Kinjiu Yasuda and Masako Yasuda, husband and wife

hereby GRANT(S) to

Los Angeles City High School District of Los Angeles County

the following described real property in the county of Los Angeles, City of Los Angeles, state of California:

Lot 5 in block 22 of Peck's Grand View Tract, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in book 8 page 79 of Maps, in the office of the County Recorder of said County.

Subject to:

Second half of 1958-59 taxes.

This is official business, filed for benefit of Board of Education of the city of Los Angeles under Government Code Section 6103.

Dated: March 4, 1959

Kinjiu Yasuda
Kinjiu Yasuda

Masako Yasuda
Masako Yasuda

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On April 8, 1959 before me, the undersigned, a Notary Public in and for said County and State, personally appeared

Kinjiu Yasuda
Masako Yasuda

known to me to be the person S whose name S are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

(Seal) N. Hashima
Notary Public in and for said County and State
My Commission Expires Apr. 2, 1961

If executed by a Corporation the Corporation Form of Acknowledgment must be used.

Title Order No.

Escrow No. 500593

File 5255 - San Pedro High School - Lot dd.

1794

RECORDING REQUESTED BY

WHEN RECORDED MAIL TO

Real Estate Branch, Business Division
Los Angeles City Board of Education
P.O. Box 2298, Terminal Annex
Los Angeles 54, California

1794

RECORDED IN OFFICIAL RECORDS OF LOS ANGELES COUNTY, CALIF. FOR TITLE INSURANCE & TRUST CO.
JUN 9 1959 AT 8 A.M.
RAY E. LEE, County Recorder

FREE 2-G

SPACE ABOVE THIS LINE FOR RECORDER'S USE

I, AROL BURNS, Director of Real Estate, Board of Education of Los Angeles City High School District of Los Angeles County, hereby certify that the Grant Deed dated March 4, 1959, from KINJIU YASUDA and MASAKO YASUDA, husband and wife, conveying Lot 5 in Block 22 of Beck's Grand View Tract to LOS ANGELES CITY HIGH SCHOOL DISTRICT OF LOS ANGELES COUNTY, as a portion of San Pedro High School Site, was accepted by the Board of Education of the City of Los Angeles at its meeting held on April 23, 1959.

Arol Burns

Subscribed and sworn to before me
this 27 day of April, 1959.

Charles B. Pfeiffer
Notary Public in and for the County
of Los Angeles, State of California.

My Commission Expires April 14, 1961

rk

RECORDING REQUESTED BY

1867

RECORDED IN OFFICIAL RECORDS OF LOS ANGELES COUNTY, CALIF. FOR TITLE INSURANCE & TRUST CO. 1 Min Past 8 AM MAY 2 1960 RAY E. LEE, County Recorder

FREE 2 V

WHEN RECORDED MAIL TO

Real Estate Branch, Business Division
Los Angeles City Board of Education
P. O. Box 2298, Terminal Annex
Los Angeles 54, California

SPACE ABOVE THIS LINE FOR RECORDER'S USE

AFFIX I.R.S. $_____ IN THIS SPACE

# Corporation Quitclaim Deed

400A-4-59 THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

I, AROL BURNS, Director of Real Estate, Board of Education of Los Angeles City High School District of Los Angeles County, hereby certify that the Corporation Quitclaim Deed dated April 12, 1960, from LOS ANGELES CITY SCHOOL DISTRICT OF LOS ANGELES COUNTY, remising, releasing, and quitclaiming Lot 9 in Block 22 of Peck's Grand View Tract to LOS ANGELES CITY HIGH SCHOOL DISTRICT OF LOS ANGELES COUNTY, as a portionof San Pedro High School, was accepted by the Board of Education of the City of Los Angeles at its meeting held on April 11, 1960.

Arol Burns

Subscribed and sworn to before me this 18 day of April, 1960

Charles B. Phelps
NOTARY PUBLIC in and for the County of Los Angeles, State of California

My Commission Expires April 14, 1961

rk

**In Witness Whereof,** said corporation has caused its corporate name and seal to be affixed hereto and this instrument to be executed by its _____ President and Director of Real Estate Secretary thereunto duly authorized.

Dated: April 12, 1960

LOS ANGELES CITY SCHOOL DISTRICT OF LOS ANGELES COUNTY
By BOARD OF EDUCATION OF THE CITY OF LOS ANGELES

By H. C. Willett President

By Arol Burns
Director of Real Estate Secretary

STATE OF CALIFORNIA } SS.
COUNTY OF Los Angeles }

On April 13, 1960 before me, the undersigned, a Notary Public in and for said County and State, personally appeared Hugh C. Willett, known to me to be the President, and Arol Burns Real Estate known to me to be Director of / Secretary of the Corporation that executed the within Instrument, known to me to be the persons who executed the within Instrument on behalf of the Corporation therein named, and acknowledged to me that such Corporation executed the within Instrument pursuant to its by-laws or a resolution of its board of directors.

WITNESS my hand and official seal.

(Seal) Charles B. Phelps
Notary Public in and for said County and State
My Commission Expires April 14, 1961

Title Order No. _____

Escrow or Loan No. 5013607 JHL

File No. 5259, San Pedro High School, 1st Add.

RECORDING REQUESTED BY

1867

RECORDED IN OFFICIAL RECORDS
OF LOS ANGELES COUNTY, CALIF.
FOR TITLE INSURANCE & TRUST CO.
1 Min Past 8 AM MAY 2 1960
RAY E. LEE, County Recorder

FREE Z-V

WHEN RECORDED MAIL TO

Real Estate Branch, Business Division
Los Angeles City Board of Education
P. O. Box 2298, Terminal Annex
Los Angeles 54, California

SPACE ABOVE THIS LINE FOR RECORDER'S USE

AFFIX I.R.S. $_____ IN THIS SPACE

# Corporation Quitclaim Deed

400A-4-59

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

LOS ANGELES CITY SCHOOL DISTRICT OF LOS ANGELES COUNTY

a corporation organized under the laws of the state of California

hereby REMISES, RELEASES AND QUITCLAIMS to

LOS ANGELES CITY HIGH SCHOOL DISTRICT OF LOS ANGELES COUNTY

that property in Los Angeles county, state of California, described as:

Lot 9 in Block 22 of Peck's Grand View Tract, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in Book 8, page 79 of Maps, in the office of the County Recorder of said County.

This is official business, filed for benefit of Board of Education of the city of Los Angeles under Government Code Section 6103.

In Witness Whereof, said corporation has caused its corporate name and seal to be affixed hereto and this instrument to be executed by its _____ President and Director of Real Estate ~~Secretary~~ thereunto duly authorized.

Dated: April 12, 1960

LOS ANGELES CITY SCHOOL DISTRICT OF LOS ANGELES COUNTY
By BOARD OF EDUCATION OF THE CITY OF LOS ANGELES

By H. C. Willett
President

By Arol Burns
Director of Real Estate ~~Secretary~~

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On April 13, 1960 before me, the undersigned, a Notary Public in and for said County and State, personally appeared Hugh C. Willett, known to me to be the President, and Arol Burns Real Estate known to me to be Director of / ~~Secretary~~ of the Corporation that executed the within Instrument, known to me to be the persons who executed the within Instrument on behalf of the Corporation therein named, and acknowledged to me that such Corporation executed the within Instrument pursuant to its by-laws or a resolution of its board of directors.

WITNESS my hand and official seal.

(Seal) Charles B. Phelps
Notary Public in and for said County and State

My Commission Expires April 14, 1961

Title Order No. _____

Escrow or Loan No. 5013607 JHL

File No. 5259, San Pedro High School, 1st Add.

1807

RECORDING REQUESTED BY

WHEN RECORDED MAIL TO

Real Estate Branch, Business Division
Los Angeles City Board of Education
P. O. Box 2296, Terminal Annex
Los Angeles 54, California

SPACE ABOVE THIS LINE FOR RECORDER'S USE

AFFIX I.R.S. $ 17.05 IN THIS SPACE



# Grant Deed

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

AMY L. SAUNDERS, a single woman

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
county of Los Angeles, state of California:

Lot 7 in block 21 of Peck's Grand View Tract, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 8 page 79 of Maps, in the office of the county recorder of said county.

This is official business, filed for benefit of [illegible] Education of the City of [illegible] under Government Code Section 6103.

T. I. REC. MAR 24 1961

Subject to:

Second half of taxes for 1960-1961

Dated: February 24, 1961

Amy L. Saunders

Amy L. Saunders

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On March 1, 1961 before me, the undersigned, a Notary Public in and for said County and State, personally appeared Amy L. Saunders, known to me to be the person whose name is subscribed to the within instrument and acknowledged that she executed the same.

WITNESS my hand and official seal.

(Seal) Alyne McBurke

ALINE M. BURKE
Name (Typed or Printed)

Notary Public in and for said County and State

*If executed by a Corporation the Corporation Form of Acknowledgment must be used.*

My commission expires 8-9-62

Title Order No.

Escrow No. 5424393 CMB

File No. 5784, San Pedro High School, 2nd Addition

1807

Re
Le
F.
Lo

I, AROL BURNS, Director of Real Antate, Board of Education of Los Angeles Unified School District of Los Angeles County, hereby certify that the Grant Deed dated February 24, 1961, from AMY L. SAUNDERS, a single woman, conveying Lot 7 in Block 21 of Peck's Grand View Tract to LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY, as a portion of the San Pedro High School site, was accepted by the Board of Education of the City of Los Angeles at its meeting held on March 16, 1961.

Arol Burns

Subscribed and sworn to before me this
17 day of March, 1961
Charles D. Phelps
NOTARY PUBLIC in and for the County
of Los Angeles, State of California

CHARLES D. PHELPS
NOTARY PUBLIC
In and for the County of California
My Commission Expires April 14, 1961

rk

T. I. REC. MAR 24 61

WITNESS my hand and official seal.

(Seal) Alyce McBurke
ALYCE M. BURKE
Name (Typed or Printed)
Notary Public in and for said County and State
If executed by a Corporation the Corporation Form of Acknowledgment must be used.
My commission expires 8-8-63

Title Order No.
Escrow No. 5424393 CMG

1807

File No. 5784, San Pedro High School, 2nd Addition

RECORDING REQUESTED BY

1847

WHEN RECORDED MAIL TO

Real Estate Branch, Business Division
Los Angeles City Board of Education
P. O. Box 2298, Terminal Annex
Los Angeles 54, California

RECORDED IN OFFICIAL RECORDS
OF LOS ANGELES COUNTY, CALIF.
FOR TITLE INSURANCE & TRUST CO.
MAR 24 1961 AT 8 A.M.
RAY E. LEE, County Recorder

FREE 2D

SPACE ABOVE THIS LINE FOR RECORDER'S USE

AFFIX I.R.S. $ 13.75 IN THIS SPACE

# Grant Deed

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

BENJAMIN R. WOODBURY and EDITH WOODBURY, husband and wife

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
county of Los Angeles, state of California:

Lot 9 in block 21 of Peck's Grand View Tract, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 8 page 79 of Maps, in the office of the county recorder of said county.

This is official business. Exempt from fee per G.C. 6103.

Subject to:

Second half of taxes for 1960-1961

Dated: March 2, 1961

Benjamin R. Woodbury

Benjamin R. Woodbury

Edith Woodbury

Edith Woodbury

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On 3/6/61 before me, the undersigned, a Notary Public in and for said County and State, personally appeared Benjamin R. Woodbury, Edith Woodbury

, known to me to be the person s whose name s are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

(Seal)

Notary Public in and for said County and State
My Commission Expires February 6, 1963

If executed by a Corporation the Corporation Form of Acknowledgment must be used.

Title Order No.

Escrow No. 5425312 CMH

1847

File No. 5786, San Pedro High School, Second Addition

RECORDING REQUESTED BY

1847

WHEN RECORDED MAIL TO

Real Estate Branch, Business Division
Los Angeles City Board of Education
P. O. Box 2298, Terminal Annex
Los Angeles 54, California

RECORDED IN OFFICIAL RECORDS
OF LOS ANGELES COUNTY, CALIF.
FOR TITLE INSURANCE & TRUST CO.
MAR 24 1961 AT 8 A.M.
RAY E. LEE, County Recorder

FREE 7D

SPACE ABOVE THIS LINE FOR RECORDER'S USE

I, AROL BURNS, Director of Real Estate, Board of Education of Los Angeles Unified School District of Los Angeles County, hereby certify that the Grant Deed dated March 2, 1961, from BENJAMIN R. WOODBURY and EDITH WOODBURY, husband and wife, conveying Lot 9 in Block 21 of Peck's Grand View Tract, as a portion of the San Pedro High School site, was accepted by the Board of Education of the City of Los Angeles at its meeting held on March 20, 1961.

Arol Burns

Subscribed and sworn to before me this
21 day of March 1961
Charles B. Phelps
NOTARY PUBLIC
in and for the County of Los Angeles, State of California

CHARLES B. PHELPS
NOTARY PUBLIC
In and for the County of Los Angeles, State of California
My Commission Expires April 14, 1961

rk

This is official business. Filed for benefit of the City of Los Angeles pursuant to Government Code Section 6103.

Subject to:

Second half of taxes for 1960-1961

Dated: March 2, 1961

Benjamin R. Woodbury
Benjamin R. Woodbury

Edith Woodbury
Edith Woodbury

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On 3/6/61 before me, the undersigned, a Notary Public in and for said County and State, personally appeared Benjamin R. Woodbury
Edith Woodbury

known to me to be the person s whose name s are subscribed to the within instrument and acknowledged that they executed the same.
WITNESS my hand and official seal.

(Seal)

Name (Typed or Printed)
Notary Public in and for said County and State
My Comm. Expires February 4, 1963

If executed by a Corporation the Corporation Form of Acknowledgment must be used.

Title Order No.

Escrow No. 5425312 CMH

1847

File No. 5786, San Pedro High School, Second Addition

RECORDING REQUESTED BY

WHEN RECORDED MAIL TO

Real Estate Branch, Business Division
Los Angeles City Board of Education
P. O. Box 2298, Terminal Annex
Los Angeles 54, California

1478

RECORDED IN OFFICIAL RECORDS
OF LOS ANGELES COUNTY, CALIF.
FOR TITLE INSURANCE & TRUST CO.
APR 19 1961 AT 8 A.M.
RAY E. LEE, County Recorder

FREE 2 G

SPACE ABOVE THIS LINE FOR RECORDER'S USE

I, ALOI BURNS, Director of Real Estate, Board of Education of Los Angeles Unified School District of Los Angeles County, hereby certify that the Grant Deed dated March 21, 1961, from CLEO H. THOMPSON, a widow, conveying Lot 11 in Block 21 of Peck's Grand View Tract to LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY, as a portion of the San Pedro High School site, was accepted by the Board of Education of the City of Los Angeles at its meeting held on April 10, 1961.

Alois Burns

Subscribed and sworn to before me this
11 day of April 1961
Charles B. Phelps

CHARLES B. PHELPS
NOTARY PUBLIC
In and for the County of Los Angeles, State of California
My Commission Expires April 14, 1961

rk

Documentary Code Section 6103.

Subject to:

Second half of taxes for 1960-1961.

Dated: March 21, 1961

Cleo H. Thompson

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On March 21, 1961 before me, the undersigned, a Notary Public in and for said County and State, personally appeared Cleo H. Thompson

to be the person whose name is subscribed to the within instrument and acknowledged that she executed the same.

WITNESS my hand and official seal.

(Seal) Edward H. Bryan

My Commission Expires October 2, 1964
Notary Public in and for said County and State

*If executed by a Corporation the Corporation Form of Acknowledgment must be used.*

Title Order No.

Escrow No. 5425353 CME

1478

370 6-59 File No. 5788, San Pedro High School, 2nd Addition

RECORDING REQUESTED BY

WHEN RECORDED MAIL TO

Real Estate Branch, Business Division
Los Angeles City Board of Education
P. O. Box 2298, Terminal Annex
Los Angeles 54, California

1478

RECORDED IN OFFICIAL RECORDS
OF LOS ANGELES COUNTY, CALIF.
FOR TITLE INSURANCE & TRUST CO.
APR 19 1961 AT 8 A.M.
RAY E. LEE, County Recorder

FREE 7 G

SPACE ABOVE THIS LINE FOR RECORDER'S USE

AFFIX I.R.S. $ 13.20 IN THIS SPACE

# Grant Deed

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,
CLEO H. THOMPSON, a widow

hereby GRANT(S) to
Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
county of Los Angeles, state of California:

Lot 11 in block 21 of Peck's Grand View Tract, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 8, page 79 of Maps, in the office of the county recorder of said county.

This is official business, filed for [illegible] of [illegible] Government Code Section 6103.

Subject to:

Second half of taxes for 1960-1961

Dated: March 21, 1961

Cleo H. Thompson

STATE OF CALIFORNIA
COUNTY OF Los Angeles } SS.

On March 29, 1961 before me, the undersigned, a Notary Public in and for said County and State, personally appeared Cleo H. Thompson

, known to me to be the person whose name is subscribed to the within instrument and acknowledged that she executed the same.

WITNESS my hand and official seal.

(Seal) Eileen M. Boycourt

My Commission Expires October 2, 1964
Notary Public in and for said County and State

*If executed by a Corporation the Corporation Form of Acknowledgment must be used.*

Title Order No.

Escrow No. 5425353 CMH

1478

3M 8-59 File No. 5788, San Pedro High School, 2nd Addition

RECORDING REQUESTED BY

1633

WHEN RECORDED MAIL TO

Real Estate Branch, Business Division
Los Angeles City Board of Education
P. O. Box 2298, Terminal Annex
Los Angeles 54, California

RECORDED IN OFFICIAL RECORDS OF LOS ANGELES COUNTY, CALIF. FOR TITLE INSURANCE & TRUST CO.
MAY 23 1961 AT 8 A.M.
RAY E. LEE, County Recorder

FREE 2 C

SPACE ABOVE THIS LINE FOR RECORDER'S USE

AFFIX I.R.S. $20.35 IN THIS SPACE

# Grant Deed

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

STEPHAN SOLJACICH and MARY SOLJACICH, husband and wife

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
county of Los Angeles , state of California:

Lot 1 in block 21 of Peck's Grand View Tract, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 8 page 79 of Maps, in the office of the county recorder of said county.

Subject to:

Taxes for 1961-1962, a lien not yet payable.

Dated: March 28, 1961

Stephan Soljacich

Stephan Soljacich

Mary Soljacich

Mary Soljacich

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On 4-7-61 before me, the undersigned, a Notary Public in and for said County and State, personally appeared Stephan Soljacich
Mary Soljacich

known to me to be the person S whose name S are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

(Seal) Ben Karmelich

My Commission Expires August 1, 1961 Ben Karmelich
Name (Typed or Printed)

Notary Public in and for said County and State

If executed by a Corporation the Corporation Form of Acknowledgment must be used.

Title Order No.

Escrow No. 542366 CMH

1633

299 8-59 File No. 5778, San Pedro High School, 2nd Addition

RECORDING REQUESTED BY

1633

WHEN RECORDED MAIL TO

Real Estate Branch, Business Division
Los Angeles City Board of Education
P. O. Box 2298, Terminal Annex
Los Angeles 54, California

RECORDED IN OFFICIAL RECORDS OF LOS ANGELES COUNTY, CALIF. FOR TITLE INSURANCE & TRUST CO.
MAY 23 1961 AT 8 A.M.
RAY E. LEE, County Recorder

FREE 2/C

SPACE ABOVE THIS LINE FOR RECORDER'S USE

I, AROL BURNS, Director of Real Estate, Board of Education of Los Angeles Unified School District of Los Angeles County, hereby certify that the Grant Deed dated March 28, 1961, from STEPHAN SOLJACICH and MARY SOLJACICH, husband and wife, conveying Lot 1 in Block 21 of Peck's Grand View Tract to LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY, as a portion of the San Pedro High School site, was accepted by the Board of Education of the City of Los Angeles at its meeting held on April 24, 1961.

Arol Burns

Subscribed and sworn to before me this
17 day of May 1961
Charles B Phelps
NOTARY PUBLIC in and for the County of Los Angeles, State of California

CHARLES B PHELPS
My Commission Expires April 14, 1965

rk

This is official business. Filed for record by [illegible] of [illegible] pursuant to Government Code Section 6103.

Subject to:

Taxes for 1961-1962, a lien not yet payable.

Dated: March 28, 1961

Stephan Soljacich

Stephan Soljacich

Mary Soljacich

Mary Soljacich

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.
On 4-7-61 before me, the undersigned, a Notary Public in and for said County and State, personally appeared Stephan Soljacich
Mary Soljacich
, known to me to be the person S whose name S are subscribed to the within instrument and acknowledged that they executed the same.
WITNESS my hand and official seal.

(Seal) Ben Karmelich
My Commission Expires August 1 1961
Name (Typed or Printed)
Notary Public in and for said County and State
*If executed by a Corporation the Corporation Form of Acknowledgment must be used.*

Title Order No.

Escrow No. 5425366 CMH

1633

File No. 5778, San Pedro High School, 2nd Addition

4418/156 2-2662 DUPLICATE

4726

THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED IS A FULL, TRUE AND CORRECT COPY OF THE ORIGINAL ON FILE AND OF RECORD IN MY OFFICE.
SAME HAVING BEEN FILED Feb 21 1962
AND ENTERED Feb 26 1962
JUDGMENT BOOK 4418 PAGE 156
ATTEST March 15 1962
WILLIAM G. SHARP County Clerk and Clerk of the Superior Court of the State of California, in and for the County of Los Angeles.
BY Evelyn Lowe DEPUTY

THIS CERTIFIED COPY IS GIVEN FREE OF CHARGE PURSUANT TO LAW SOLELY UPON THE CONDITION THAT IT IS TO BE USED FOR OFFICIAL BUSINESS AND OR TO DETERMINE ELIGIBILITY FOR VETERANS BENEFITS.

IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA

IN AND FOR THE COUNTY OF LOS ANGELES

FREE V M

LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY,

Plaintiff,

vs.

GEORGE BOSNICH, et al.,

Defendants.

NO. 700 861

FINAL ORDER OF CONDEMNATION

(Parcel 2)

(SAN PEDRO HIGH SCHOOL)

RECORDING REQUESTED BY
HAROLD W. KENNEDY, COUNTY COUNSEL
648 HALL OF ADMINISTRATION
LOS ANGELES, CALIFORNIA
MA 5-3611

An interlocutory judgment having been heretofore made and entered in this action condemning certain of the real property described in the Complaint on file herein, and adjudging and decreeing the amounts to be paid to the defendants and other persons entitled thereto, or into court for their benefit, and proof having been made to the satisfaction of the court that said amounts have been paid in the manner provided, and that plaintiff is therefore entitled to have a final order of condemnation herein in accordance with the terms and provisions of said judgment,

NOW, THEREFORE, IT IS ORDERED, ADJUDGED AND DECREED that that certain real property as hereinafter described, together with any and all improvements thereon, be and the same is hereby condemned as prayed for, and that the plaintiff does hereby take and acquire the fee simple title in and to said property for the public purposes set forth in the complaint



RECORDED IN OFFICIAL RECORDS OF LOS ANGELES COUNTY, CALIF.
13 Min. Fee 2 P.M. Apr 4 1962
RAY E. LEE, County Recorder

4-4-62

herein; said property being situate in the County of Los Angeles, State of California, and being more particularly described as follows:

PARCEL 2:

Lot 2 in Block 21 of Peck's Grand View Tract, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in Book 8, page 79 of Maps, in the office of the County Recorder of said County.

DATED: FEB 21 1962.

Rodda
JUDGE OF THE SUPERIOR COURT
Pro Tempore

HAROLD W. KENNEDY, COUNTY COUNSEL
1100 HALL OF RECORDS
LOS ANGELES, CALIFORNIA
MA-69211

NJO:lrl
2/20/62

4448/159 2-26-62 DUPLICATE

4727

THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED IS A FULL, TRUE AND CORRECT COPY OF THE ORIGINAL ON FILE AND OF RECORD IN MY OFFICE, SAME HAVING BEEN FILED Feb 21 1962 AND ENTERED Feb 26 1962 JUDGMENT BOOK 4418 PAGE 159 ATTEST March 15 1962 WILLIAM G. SHARP County Clerk and Clerk of the Superior Court of the State of California, in and for the County of Los Angeles. BY ..... DEPUTY

THIS CERTIFIED COPY IS GIVEN FREE OF CHARGE PURSUANT TO LAW SOLELY UPON THE CONDITION THAT IT IS TO BE USED FOR OFFICIAL BUSINESS AND OR TO DETERMINE ELIGIBILITY FOR VETERANS BENEFITS.

IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA

IN AND FOR THE COUNTY OF LOS ANGELES

LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY,

Plaintiff,

vs.

GEORGE BOSNICH, et al.,

Defendants.

NO. 780 561

FREE V M

FINAL ORDER OF CONDEMNATION

(Parcel 3)

(SAN PEDRO HIGH SCHOOL)

RECORDING REQUESTED BY

HAROLD W. KENNEDY, COUNTY COUNSEL
648 HALL OF ADMINISTRATION
LOS ANGELES CALIFORNIA
MA 5-3611

An interlocutory judgment having been heretofore made and entered in this action condemning certain of the real property described in the Complaint on file herein, and adjudging and decreeing the amounts to be paid to the defendants and other persons entitled thereto, or into court for their benefit, and proof having been made to the satisfaction of the court that said amounts have been paid in the manner provided, and that plaintiff is therefore entitled to have a final order of condemnation herein in accordance with the terms and provisions of said judgment,

NOW, THEREFORE, IT IS ORDERED, ADJUDGED AND DECREED that that certain real property as hereinafter described, together with any and all improvements thereon, be and the same is hereby condemned as prayed for, and that the plaintiff does hereby take and acquire the fee simple title in and to said property for the public purposes set forth in the complaint



RECORDS OF ... COUNTY, CALIF.
13 Min. Past 8 P.M. APR 4 1962
RAY E. LEE, County Recorder

herein; said property being situate in the County of Los Angeles, State of California, and being more particularly described as follows:

PARCEL 3:

Lot 3 in Block 21 of Peck's Grand View Tract, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in Book 8, Page 79 of Maps, in the office of the County Recorder of said County.

DATED: FEB 21 1962.

RODDA
JUDGE OF THE SUPERIOR COURT

Pro Tempore

HAROLD W. KENNEDY, COUNTY COUNSEL
1100 HALL OF RECORDS
LOS ANGELES, CALIFORNIA
MA 9211

NGO:lrl
2/20/62

4418/158 DUPLICATE 2-2642

4728

THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED IS A FULL, TRUE AND CORRECT COPY OF THE ORIGINAL ON FILE AND OF RECORD IN MY OFFICE.
SAME HAVING BEEN FILED Feb 21 1962
AND ENTERED Feb 26 1962
JUDGMENT BOOK 4418 PAGE 158
ATTEST March 15 1962
WILLIAM G. SHARP County Clerk and Clerk of the Superior Court of the State of California, in and for the County of Los Angeles.
BY Pearl M. Brand DEPUTY

THIS CERTIFIED COPY IS GIVEN FREE OF CHARGE PURSUANT TO LAW SOLELY UPON THE CONDITION THAT IT IS TO BE USED FOR OFFICIAL BUSINESS AND OR TO DETERMINE ELIGIBILITY FOR VETERANS BENEFITS.

IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA

IN AND FOR THE COUNTY OF LOS ANGELES

FREE V M

RECORDING REQUESTED BY
HAROLD W. KENNEDY, COUNTY COUNSEL
648 HALL OF ADMINISTRATION
LOS ANGELES, CALIFORNIA
MA 5-3611

LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY,

Plaintiff,

vs.

GEORGE BOSNICH, et al.,

Defendants.

NO. 700 861

FINAL ORDER OF CONDEMNATION

(Parcel 8)

(SAN PEDRO HIGH SCHOOL)

An interlocutory judgment having been heretofore made and entered in this action condemning certain of the real property described in the Complaint on file herein, and adjudging and decreeing the amounts to be paid to the defendants and other persons entitled thereto, or into court for their benefit, and proof having been made to the satisfaction of the court that said amounts have been paid in the manner provided, and that plaintiff is therefore entitled to have a final order of condemnation herein in accordance with the terms and provisions of said judgment,

NOW, THEREFORE, IT IS ORDERED, ADJUDGED AND DECREED that that certain real property as hereinafter described, together with any and all improvements thereon, be and the same is hereby condemned as prayed for, and that the plaintiff does hereby take and acquire the fee simple title in and to said property for the public purposes set forth in the complaint



RECORDED IN OFFICIAL RECORDS OF LOS ANGELES COUNTY, CALIF.
FEB 2 PM APR 4 1962
REG. E. LEE County Recorder

herein; said property being situate in the County of Los Angeles, State of California, and being more particularly described as follows:

PARCEL 8:

Lot 10 in Block 21 of Peck's Grand View Tract, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in Book 8, page 79 of Maps, in the office of the County Recorder of said County.

DATED: FEB 21 1962.

Rodda
JUDGE OF THE SUPERIOR COURT
PRO TEMPORE

HAROLD W. KENNEDY, COUNTY COUNSEL
1100 HALL OF RECORDS
LOS ANGELES, CALIFORNIA
MA-09211

NGO:lrl
2/20/62

448/157 DUPLICATE

4729

THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED IS A FULL, TRUE AND CORRECT COPY OF THE ORIGINAL ON FILE AND OF RECORD IN MY OFFICE.
SAME HAVING BEEN FILED Feb 21 1962
AND ENTERED Feb 26 1962
JUDGMENT BOOK 4418 PAGE 157
ATTEST March 15 19 62
WILLIAM G. SHARP County Clerk and Clerk of the Superior Court of the State of California, in and for the County of Los Angeles.
BY _____ DEPUTY

THIS CERTIFIED COPY IS GIVEN FREE OF CHARGE PURSUANT TO LAW SOLELY UPON THE CONDITION THAT IT IS TO BE USED FOR OFFICIAL BUSINESS AND OR TO DETERMINE ELIGIBILITY FOR VETERANS BENEFITS.

IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA

IN AND FOR THE COUNTY OF LOS ANGELES

LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY,

Plaintiff,

vs.

GEORGE BOSNICH, et al.,

Defendants.

NO. 709 561

FREE V M

FINAL ORDER OF CONDEMNATION

(Parcel 9)

(SAN PEDRO HIGH SCHOOL)

REQUESTED BY HAROLD W. KENNEDY, COUNTY COUNSEL 648 HALL OF ADMINISTRATION LOS ANGELES, CALIFORNIA MA 5-3611

An interlocutory judgment having been heretofore made and entered in this action condemning certain of the real property described in the Complaint on file herein, and adjudging and decreeing the amounts to be paid to the defendants and other persons entitled thereto, or into court for their benefit, and proof having been made to the satisfaction of the court that said amounts have been paid in the manner provided, and that plaintiff is therefore entitled to have a final order of condemnation herein in accordance with the terms and provisions of said judgment,

NOW, THEREFORE, IT IS ORDERED, ADJUDGED AND DECREED that that certain real property as hereinafter described, together with any and all improvements thereon, be and the same is hereby condemned as prayed for, and that the plaintiff does hereby take and acquire the fee simple title in and to said property for the public purposes set forth in the complaint



RECORDED IN OFFICIAL RECORDS OF LOS ANGELES COUNTY, CALIF.
13 Min. Fee 2 P.M. Aug 4 1962
RAY E. LEE, County Recorder

herein; said property being situate in the County of Los Angeles, State of California, and being more particularly described as follows:

PARCEL 9:

Lot 13 in Block 21 of Peck's Grand View Tract, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in Book 8, Page 79 of Maps, in the office of the County Recorder of said County.

DATED: FEB 21 1962.

RODDA
JUDGE OF THE SUPERIOR COURT
PRO TEMPORE

HAROLD W. KENNEDY, COUNTY COUNSEL
1100 HALL OF RECORDS
LOS ANGELES, CALIFORNIA
MA-6921 1

NGO:lrl
2/20/62

4418/163 2-24-62 DUPLICATE

THIS CERTIFIED COPY IS GIVEN FREE OF CHARGE [illegible] TO BE USED SOLELY UPON THE CONDITION THAT IT IS TO BE USED FOR OFFICIAL [illegible] AND OR TO DETERMINE ELIGIBILITY FOR VETERANS BENEFITS.

4730

THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED IS A FULL, TRUE AND CORRECT COPY OF THE ORIGINAL ON FILE AND OF RECORD IN MY OFFICE.
SAME HAVING BEEN FILED Feb 21 1962
AND ENTERED Feb 26 1962
JUDGMENT BOOK 4418 PAGE 163
ATTEST March 15 1962
WILLIAM G. SHARP County Clerk and Clerk of the Superior Court of the State of California, in and for the County of Los Angeles
BY [signature] DEPUTY

IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA
IN AND FOR THE COUNTY OF LOS ANGELES

FREE V M

RECORDING REQUESTED BY
HAROLD W. KENNEDY, COUNTY COUNSEL
648 HALL OF ADMINISTRATION
LOS ANGELES, CALIFORNIA
MA 5-3611

LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY,

Plaintiff,

vs.

GEORGE BOSNICH, et al.,

Defendants.

NO. 700 561

FINAL ORDER OF CONDEMNATION

(Parcel 10)

(SAN PEDRO HIGH SCHOOL)

An interlocutory judgment having been heretofore made and entered in this action condemning certain of the real property described in the Complaint on file herein, and adjudging and decreeing the amounts to be paid to the defendants and other persons entitled thereto, or into court for their benefit, and proof having been made to the satisfaction of the court that said amounts have been paid in the manner provided, and that plaintiff is therefore entitled to have a final order of condemnation herein in accordance with the terms and provisions of said judgment,

NOW, THEREFORE, IT IS ORDERED, ADJUDGED AND DECREED that that certain real property as hereinafter described, together with any and all improvements thereon, be and the same is hereby condemned as prayed for, and that the plaintiff does hereby take and acquire the fee simple title in and to said property for the public purposes set forth in the complaint



RECORDED IN OFFICIAL RECORDS OF LOS ANGELES COUNTY, CALIF.
13 Min Past 2 P.M. MAR 14 1962
RAY E. LEE, County Recorder

herein; said property being situate in the County of Los Angeles, State of California, and being more particularly described as follows:

PARCEL 10:

Lot 14 in Block 21 of Peck's Grand View Tract, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in Book 8, page 79 of Maps, in the office of the County Recorder of said County.

DATED: FEB 21 1962.

Redd
JUDGE OF THE SUPERIOR COURT
Pro Tempore

HAROLD W. KENNEDY, COUNTY COUNSEL
1100 HALL OF RECORDS
LOS ANGELES, CALIFORNIA
MA-9211

NGO:lrl
2/20/62

4418/162

DUPLICATE 2-26-62

THIS CERTIFIED COPY IS GIVEN FREE OF CHARGE PURSUANT TO LAW SOLELY UPON THE CONDITION THAT IT IS TO BE USED FOR OFFICIAL BUSINESS AND OR TO DETERMINE ELIGIBILITY FOR VETERANS BENEFITS.

4731

THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED IS A FULL, TRUE AND CORRECT COPY OF THE ORIGINAL ON FILE AND OF RECORD IN MY OFFICE.
SAME HAVING BEEN FILED Feb 21 1962
AND ENTERED Feb 26 1962
JUDGMENT BOOK 4418 PAGE 162
ATTEST March 15 1962
WILLIAM G. SHARP County Clerk and Clerk of the Superior Court of the State of California, in and for the County of Los Angeles.
BY Pearl M. Hines DEPUTY

IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA

IN AND FOR THE COUNTY OF LOS ANGELES

FREE

LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY,

Plaintiff,

vs.

GEORGE BOSNICH, et al.,

Defendants.

NO. 788 561

FINAL ORDER OF CONDEMNATION

(Parcel 11)

(SAN PEDRO HIGH SCHOOL)

RECORDING REQUESTED BY

HAROLD W. KENNEDY, COUNTY COUNSEL
648 HALL OF ADMINISTRATION
LOS ANGELES, CALIFORNIA
MA 5 3611

An interlocutory judgment having been heretofore made and entered in this action condemning certain of the real property described in the Complaint on file herein, and adjudging and decreeing the amounts to be paid to the defendants and other persons entitled thereto, or into court for their benefit, and proof having been made to the satisfaction of the court that said amounts have been paid in the manner provided, and that plaintiff is therefore entitled to have a final order of condemnation herein in accordance with the terms and provisions of said judgment,

NOW, THEREFORE, IT IS ORDERED, ADJUDGED AND DECREED that that certain real property as hereinafter described, together with any and all improvements thereon, be and the same is hereby condemned as prayed for, and that the plaintiff does hereby take and acquire the fee simple title in and to said property for the public purposes set forth in the complaint



RECORDED IN BOOKS OF LOS ANGELES COUNTY, CALIF.
13 MAR 2 P.M. 4 1962
RAY E. LEE, County Recorder

herein; said property being situate in the County of Los Angeles, State of California, and being more particularly described as follows:

PARCEL 11:

Lot 12 in Block 21 of Peck's Grand View Tract, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in Book 8, page 79 of Maps, in the office of the County Recorder of said County.

DATED: FEB 21 1962.

RODDY
JUDGE OF THE SUPERIOR COURT
PRO TEMPORE

HAROLD W. KENNEDY, COUNTY COUNSEL
1100 HALL OF RECORDS
LOS ANGELES, CALIFORNIA
MA-8211

HGO:lrl
2/20/62

4418/161 2-26-62 DUPLICATE

THIS CERTIFIED COPY IS GIVEN FREE OF CHARGE PURSUANT TO LAW SOLELY UPON THE CONDITION THAT IT IS TO BE USED FOR OFFICIAL BUSINESS AND OR TO DETERMINE ELIGIBILITY FOR VETERANS BENEFITS.

4732

THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED IS A FULL, TRUE AND CORRECT COPY OF THE ORIGINAL ON FILE AND OF RECORD IN MY OFFICE.
SAME HAVING BEEN FILED Feb 21 1962
AND ENTERED Feb 26 1962
JUDGMENT BOOK 4418 PAGE 161
ATTEST March 15 1962
WILLIAM G. SHARP County Clerk and Clerk of the Superior Court of the State of California, in and for the County of Los Angeles.
BY Pearl M. Vance DEPUTY

IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA

IN AND FOR THE COUNTY OF LOS ANGELES

FREE 1/M

RECORDING REQUESTED BY
HAROLD W. KENNEDY, COUNTY COUNSEL
648 HALL OF ADMINISTRATION
LOS ANGELES, CALIFORNIA
MA 5 3611

LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY,

Plaintiff,

vs.

GEORGE BOSNICH, et al.,

Defendants.

NO. 709 561

FINAL ORDER OF CONDEMNATION

(Parcel 12)

(SAN PEDRO HIGH SCHOOL)

An interlocutory judgment having been heretofore made and entered in this action condemning certain of the real property described in the Complaint on file herein, and adjudging and decreeing the amounts to be paid to the defendants and other persons entitled thereto, or into court for their benefit, and proof having been made to the satisfaction of the court that said amounts have been paid in the manner provided, and that plaintiff is therefore entitled to have a final order of condemnation herein in accordance with the terms and provisions of said judgment,

NOW, THEREFORE, IT IS ORDERED, ADJUDGED AND DECREED that that certain real property as hereinafter described, together with any and all improvements thereon, be and the same is hereby condemned as prayed for, and that the plaintiff does hereby take and acquire the fee simple title in and to said property for the public purposes set forth in the complaint



RECORDED IN OFFICIAL RECORDS OF LOS ANGELES COUNTY, CALIF.
10 Min. Past 2 P.M. APR 4 1962
RAY E. LEE, County Recorder

4-4-62

herein; said property being situate in the County of Los Angeles, State of California, and being more particularly described as follows:

PARCEL 12:

Lot 15 in Block 21 of Peck's Grand View Tract, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in Book 8, page 79 of Maps, in the office of the County Recorder of said County.

DATED: FEB 21 1962.

RODDA
JUDGE OF THE SUPERIOR COURT
PRO TEMPORE

HAROLD W. KENNEDY, COUNTY COUNSEL
1100 HALL OF RECORDS
LOS ANGELES, CALIFORNIA
MA-69211

NGO:lrl
2/20/62

DUPLICATE

4739

IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA

IN AND FOR THE COUNTY OF LOS ANGELES

FREE 2 M

RECORDING REQUESTED BY

HAROLD W. KENNEDY, COUNTY COUNSEL
648 HALL OF ADMINISTRATION
LOS ANGELES, CALIFORNIA
MA 5-3611

| | |
|---|---|
| LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY,<br>Plaintiff,<br>vs.<br>GEORGE BOSNICH, et al.,<br>Defendants, | NO. 769 561<br>FINAL ORDER OF CONDEMNATION<br>(Parcels 4 and 7)<br>( San Pedro High School Project.) |

An interlocutory judgment having been heretofore made and entered in this action condemning certain of the real property described in the Complaint on file herein, and adjudging and decreeing the amounts to be paid to the defendants and other persons entitled thereto, or into court for their benefit, and proof having been made to the satisfaction of the court that said amounts have been paid in the manner provided, and that plaintiff is therefore entitled to have a final order of condemnation herein in accordance with the terms and provisions of said judgment,

NOW, THEREFORE, IT IS ORDERED, ADJUDGED AND DECREED that that certain real property as hereinafter described, together with any and all improvements thereon, be and the same is hereby condemned as prayed for, and that the plaintiff does hereby take and acquire the fee simple title in and to said property for the public purposes set forth in the complaint



RECORDED IN OFFICIAL RECORDS
OF LOS ANGELES COUNTY, CALIF.
13 Min. Past 2 P.M. APR 4 1962
RAY E. LEE, County Recorder

4-4-62

herein; said property being situate in the County of Los Angeles, State of California, and being more particularly described as follows:

PARCEL 4:

Lot 4 in Block 21 of Peck's Grand View Tract, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in Book 8, Page 79 of Maps, in the office of the County Recorder of said County.

PARCEL 7:

Lot 8 in Block 21 of Peck's Grand View Tract, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in Book 8, Page 79 of Maps, in the office of the County Recorder of said County.

DATED: Mar 2 1962

Rodda

JUDGE OF THE SUPERIOR COURT.

Jno. Temple

NGO:kai

2/28/62

THIS DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED IS A FULL, TRUE AND CORRECT COPY OF THE ORIGINAL ON FILE AND OF RECORD IN MY OFFICE.
SAME HAVING BEEN FILED Mar 2 1962
AND ENTERED Mar 5 1962
JUDGMENT BOOK 4424 PAGE 95
ATTEST March 13 1962
WILLIAM G. SHARP County Clerk and Clerk of the Superior Court of the State of California, in and for the County of Los Angeles.
BY Frank M Jones DEPUTY

THIS CERTIFIED COPY IS GIVEN FREE OF CHARGE PURSUANT TO LAW SOLELY UPON THE CONDITION THAT IT IS TO BE USED FOR OFFICIAL BUSINESS AND OR TO DETERMINE ELIGIBILITY FOR VETERANS BENEFITS.

HAROLD W. KENNEDY, COUNTY COUNSEL
1100 HALL OF RECORDS
LOS ANGELES, CALIFORNIA
MA-89211

5178

THIS CERTIFIED COPY IS GIVEN FREE OF CHARGE PURSUANT TO LAW SOLELY UPON THE CONDITION THAT IT IS TO BE USED FOR OFFICIAL BUSINESS AND/OR TO DETERMINE ELIGIBILITY FOR VETERANS BENEFITS.

THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED IS A FULL, TRUE AND CORRECT COPY OF THE ORIGINAL ON FILE AND OF RECORD IN MY OFFICE.
SAME HAVING BEEN FILED Apr 6 1962
AND ENTERED Apr 6 1962
JUDGMENT BOOK 9450 PAGE 93
ATTEST April 30 1962
WILLIAM G. SHARP County Clerk and Clerk of the Superior Court of the State of California, in and for the County of Los Angeles.
BY ..... DEPUTY

RECORDED IN OFFICIAL RECORDS OF LOS ANGELES COUNTY, CALIF.
10 Min. 1 P.M. MAY 2 1962
RAY E. [illegible] County Recorder

IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA

IN AND FOR THE COUNTY OF LOS ANGELES

FREE V M

LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY,

Plaintiff,

vs.

GEORGE BOSWICH, et al.,

Defendants.

NO. 760 561

FINAL ORDER OF CONDEMNATION

(Parcel 8)

(SAN PEDRO HIGH SCHOOL)

RECORDING REQUESTED BY
HAROLD W. KENNEDY, COUNTY COUNSEL
648 HALL OF ADMINISTRATION
LOS ANGELES, CALIFORNIA

An interlocutory judgment having been heretofore made and entered in this action condemning certain of the real property described in the Complaint on file herein, and adjudging and decreeing the amounts to be paid to the defendants and other persons entitled thereto, or into court for their benefit, and proof having been made to the satisfaction of the court that said amounts have been paid in the manner provided, and that plaintiff is therefore entitled to have a final order of condemnation herein in accordance with the terms and provisions of said judgment,

NOW, THEREFORE, IT IS ORDERED, ADJUDGED AND DECREED that that certain real property as hereinafter described, together with any and all improvements thereon, be and the same is hereby condemned as prayed for, and that the plaintiff does hereby take and acquire the fee simple title in and to said property for the public purposes set forth in the complaint

MAY 2 62

5178

herein; said property being situate in the County of Los Angeles, State of California, and being more particularly described as follows:

PARCEL 5:

Lot 5 in Block 21 of Peck's Grand View Tract, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in Book 8, Page 79 of Maps, in the office of the County Recorder of said County.

DATED: April 4 - 1962.

Judge

JUDGE OF THE SUPERIOR COURT

Pro Tempore

HAROLD W. KENNEDY, COUNTY COUNSEL
1100 HALL OF RECORDS
LOS ANGELES, CALIFORNIA
MA 9211

NGO:lrl
4/3/62

4566

THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED IS A FULL, TRUE AND CORRECT COPY OF THE ORIGINAL ON FILE AND OF RECORD IN MY OFFICE.
SAME HAVING BEEN FILED May 2 1962
AND ENTERED May 11 1962
JUDGMENT BOOK 4646 PAGE 132
ATTEST May 22 19 62
WILLIAM G. SHARP, County Clerk and Clerk of the Superior Court of the State of California, in and for the County of Los Angeles
BY _____ DEPUTY

IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA

FOR THE COUNTY OF LOS ANGELES

FILED V M

LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY,
Plaintiff,
vs.
GEORGE BOSNICH, et al.,
Defendants.

NO. 700,821
FINAL ORDER OF CONDEMNATION
(Parcel 8)

HAROLD W. KENNEDY, COUNTY COUNSEL
648 HALL OF ADMINISTRATION
LOS ANGELES, CALIFORNIA
MA 8-3611

An interlocutory judgment having been heretofore made and entered in this action condemning certain of the real property described in the Complaint on file herein, and adjudging and decreeing the amounts to be paid to the defendants and other persons entitled thereto, or into court for their benefit, and proof having been made to the satisfaction of the court that said amounts have been paid in the manner provided, and that plaintiff is therefore entitled to have a final order of condemnation herein in accordance with the terms and provisions of said judgment,

NOW, THEREFORE, IT IS ORDERED, ADJUDGED AND DECREED that certain real property as hereinafter described, together with any and all improvements thereon, be and the same is hereby condemned as prayed for, and the plaintiff does hereby take and acquire the fee simple title in and to said property for the public purposes set forth in the Complaint

-1-

RECORDED IN OFFICIAL RECORDS OF LOS ANGELES COUNTY, CALIF.
59 Min. Past 1 P.M. MAY 23 1962
RAY E. LEE, County Recorder

4566

herein; said property being situate in the County of Los Angeles, State of California, and being more particularly described as follows:

PARCEL 2:

Lot 6 in Block 21 of Peck's Grand View Tract, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in Book 8, Page 79 of Maps, in the office of the County Recorder of said County.

Dated: MAY 9-1962

Judge of the Superior Court

Pro Tempore

THIS CERTIFIED COPY IS GIVEN FREE OF CHARGE PURSUANT TO LAW SOLELY UPON THE CONDITION THAT IT IS TO BE USED FOR OFFICIAL BUSINESS AND/OR TO DETERMINE ELIGIBILITY FOR VETERANS BENEFITS.



4566

# CERTIFICATION

STATE OF CALIFORNIA
COUNTY OF LOS ANGELES, } ss.

5691

FREE | S

I, WALTER C. PETERSON, City Clerk of the City of Los Angeles and ex-officio Clerk of the City Council of the City of Los Angeles, do hereby certify and attest the foregoing to be a full, true and correct copy of the original of Ordinance No. 129,446, of the City of Los Angeles,

on file in my office, and that I have carefully compared the same with the original.

In Witness Whereof, I have hereunto set my hand and affixed the Seal of the City of Los Angeles, this 26th day of February, 19 65

Walter C. Peterson
City Clerk of the City of Los Angeles

By Charles G. Stimler
Deputy

Form Clerk 22—3M—1-63 (R)

San Pedro News-Pilot 7256
ORDINANCE NO. 129,446
An Ordinance of the City of Los Angeles ordering the vacation of Alma Street and the alley in the block lying northerly of Seventeenth Street and easterly of Leland Street (San Pedro District) as contemplated by Ordinance No. 123,757.
THE PEOPLE OF THE CITY OF LOS ANGELES DO ORDAIN AS FOLLOWS:
Section 1. The City Council of the City of Los Angeles, having heard the evidence offered in relation to the proposed vacation of Alma Street from Seventeenth Street to the terminus of Alma Street approximately 130 feet northerly of Seventeenth Street, San Pedro District; also, the alley in the block lying northerly of said Seventeenth Street and easterly of Leland Street, hereby finds, from all the evidence submitted, that the public street area above referred to and proposed to be vacated by Ordinance No. 123,757, approved February 4, 1963, are unnecessary for present or prospective public street purposes. For full particulars, reference is hereby made to said Ordinance No. 123,757 and to map filed in Volume 2, Page 60, of Street Vacation Maps on file in the office of the City Clerk. It is therefore ordered that said public street areas be and the same are hereby vacated.
Sec. 2. The City Clerk shall certify to the passage of this ordinance and cause the same to be published in some daily newspaper printed and published in the City of Los Angeles.
I hereby certify that the foregoing was passed by the Council of the City of Los Angeles, at its meeting of February 2, 1965.
WALTER C. PETERSON,
City Clerk.
By M. B. WILSON,
Deputy.
Approved Feb. 5, 1965.
SAMUEL W. YORTY,
Mayor.
Pub. No. 166,186,
Feb. 17, 1965.

Requested by &
Return to:
City Clerk
Room 195, City Hall
Los Angeles, Calif.
90012

RECORDED IN OFFICIAL RECORDS
OF LOS ANGELES COUNTY, CALIF.
45 Min. Past 3 P.M. FEB 26 1965
RAY E. LEE, County Recorder

RECORDING REQUESTED BY

1157

AND WHEN RECORDED MAIL TO

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX STATEMENT"

$10.00 REALTY TRANSFER TAX

# Grant Deed

AFFIX I.R.S. $ 28.60 ABOVE

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

HUBERT O. BRYANT and FREDA M. BRYANT, husband and wife

$15 OCT 18 1967 LOS ANGELES REALTY TRANSFER TAX

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
County of Los Angeles, State of California:

Lot 10 in block 8 of Vista Del Oro, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 37 page 59 of Maps, in the office of the county recorder of said county.

Subject to:

Taxes for 1967-1968, a lien not yet payable.

Dated September 21, 1967

Hubert O. Bryant
Hubert O. Bryant

Freda M. Bryant
Freda M. Bryant

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On September 21, 1967 before me, the undersigned, a Notary Public in and for said State, personally appeared Hubert O. Bryant, Freda M. Bryant

known to me to be the person s whose name s are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

Signature Imogene Meyer

Name (Typed or Printed)

OFFICIAL SEAL
IMOGENE MEYER
NOTARY PUBLIC - CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY

IMOGENE MEYER
My Commission Expires Sept. 14, 1967

(This area for official notarial seal)

Title Order No. Escrow or Loan No. 6634375 CMH

File No. 8412, San Pedro High School, Jed Addition

MAIL TAX STATEMENTS AS DIRECTED ABOVE

T. 1. REC OCT 13 67

1157

T. I. REC OCT 13'67

I, MILO M. WATT, Director of Real Estate, Board of Education of Los Angeles Unified School District of Los Angeles County, hereby certify that the Grant Deed dated September 21, 1967 from HUBERT O. BRYANT and FREDA M. BRYANT, husband and wife, conveying Lot 10 in Block 3 of Vista Del Oro to LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY as a portion of the San Pedro HighSchool Site was accepted by the Board of Education of the City of Los Angeles at its meeting held on October 9, 1967.

Milo M. Watt

Subscribed and sworn to before me this
16th day of October, 1967

NOTARY PUBLIC in and for the County of Los Angeles, State of California

ea

OFFICIAL SEAL
[illegible]
NOTARY PUBLIC - CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY

1157

_____, known to me to be the person S whose name S are subscribed to the within instrument and acknowledged that they executed the same.
WITNESS my hand and official seal.

Signature Imogene Meyer

Name (Typed or Printed)

IMOGENE MEYER
NOTARY PUBLIC - CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY

IMOGENE MEYER
My Commission Expires Sept. 14, 1970

1157

Title Order No. _____ Escrow or Loan No. 6634375 CMH

File No. 8412, San Pedro High School - 3rd Addition
MAIL TAX STATEMENTS AS DIRECTED ABOVE

RECORDING REQUESTED BY

640

AND WHEN RECORDED MAIL TO

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

SPACE ABOVE THIS LINE FOR RECORDER'S USE

DOCUMENTARY $1.50

# BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX STATEMENT" Affix I.R.S. $ 71.50 IN THIS SPACE

SEC. 11 REALTY TRANSFER TAX

## Grant Deed

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

$25 REALTY TRANSFER TAX

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

HERBERT J. YOUNG and MAE H. YOUNG, husband and wife

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

I, MILO M. WATT, Director of Real Estate, Board of Education of Los Angeles Unified School District of Los Angeles County, hereby certify that the Grant Deed dated September 21, 1967, from HERBERT J. YOUNG and MAE H. YOUNG, husband and wife, conveying Lot 8 in Block 8 of Vista Del Oro to LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY as a portion of the San Pedro High School Site was accepted by the Board of Education of the City of Los Angeles at its meeting held on October 16, 1967.

Milo M. Watt

NOTARY PUBLIC in and for said County of Los Angeles, State of California

ea

OFFICIAL SEAL
MORRIS HARRY SIEGEL
NOTARY PUBLIC-CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY
My Commission Expires Sept. 14, 1968

_____ known to me to be the person s whose name s are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

Signature Morris Harry Siegel

MORRIS HARRY SIEGEL
Name (Typed or Printed)

Title Order No. _____ Escrow or Loan No. 653476 CMH

File No. 8410, San Pedro High School, Third Addition

T. I. REC OCT 25 '67

640

640

640

RECORDING REQUESTED BY

640

AND WHEN RECORDED MAIL TO

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

SPACE ABOVE THIS LINE FOR RECORDER'S USE

# BOARD OF EDUCATION
## CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX STATEMENT" AFFIX I.R.S. $ 71.50 IN THIS SPACE

DOCUMENTARY 27150 OCT 25 '67 PD

SEC. 103 REALTY TRANSFER TAX

# Grant Deed

TO 451 C THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

$25 LOS ANGELES REALTY TRANSFER TAX

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

HERBERT J. YOUNG and MAE H. YOUNG, husband and wife

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
County of Los Angeles, State of California:

Lot 8 in block 8 of Vista Del Oro, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 37 page 59 of Maps, in the office of the county recorder of said county.

Subject to:

Taxes for 1967-1968, a lien not yet payable.

Dated September 21, 1967

Herbert J. Young
Herbert J. Young

Mae H. Young
Mae H. Young

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On September 24 1967 before me, the undersigned, a Notary Public in and for said State, personally appeared Herbert J. Young
Mae H. Young

known to me to be the person s whose name s are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

Signature Morris Harry Siegel

MORRIS HARRY SIEGEL
Name (Typed or Printed)

OFFICIAL SEAL
MORRIS HARRY SIEGEL
NOTARY PUBLIC-CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY
My Commission Expires Sept. 14, 1968

(This area for official notarial seal)

Title Order No. Escrow or Loan No. 6634376 CMH

File No. 8410, San Pedro High School, Third Addition

T. I. REC OCT 25 67

640

RECORDING REQUESTED BY

498

AND WHEN RECORDED MAIL TO

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

RECORDED IN OFFICIAL RECORDS
OF LOS ANGELES COUNTY, CALIF.
FOR TITLE INSURANCE & TRUST CO.
OCT 26 1967 AT 8 A.M.
RAY E. LEE, County Recorder

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

BOARD OF EDUCATION
CITY OF LOS ANGELES

[redacted]

FREE

# Grant Deed

ADD'L R.S. $ 25.85 Above

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

ROBERT C. MARTIN and OLETHA P. MARTIN, husband and wife

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
County of Los Angeles, State of California:

Lot 16 in Block 8 of Vista Del Oro, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 37 page 59 of Maps, in the office of the county recorder of said county.

Subject to:

Taxes for 1967-1968, a lien not yet payable.

Dated

Robert C. Martin

Oletha P. Martin

[redacted]

Robert C. Martin

CHAS. E. JONES

498

MAIL TAX STATEMENTS AS DIRECTED ABOVE

RECORDING REQUESTED BY

498

AND WHEN RECORDED MAIL TO

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX STATEMENT"

T. I. REC

# Grant Deed

AFFIX I.R.S. $ 25.85 ABOV

OCT 26 '67

I, MILO M. WATT, Director of Real Estate, Board of Education of Los Angeles Unified School District of Los Angeles County, hereby Certify that the Grant Deed dated October 1, 1967 from ROBERT C. MARTIN and OLETHA P. MARTIN, husband and wife, conveying Lot 16 in Block 8 of Vista Del Oro to LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY as a portion of the San Pedro High School Site was accepted by the Board of Education of the City of Los Angeles at its meeting held on October 23, 1967.

Milo M. Watt

October 1967

Notary Public in and for said County of Los Angeles, State of California

498

ca

Dated Oct 1st 1967

Robert C. Martin

Oletha P. Martin

STATE OF ~~CALIFORNIA~~ GEORGIA
COUNTY OF ~~Los Angeles~~ RICHMOND ss.
On OCTOBER 1, 1967 before me, the undersigned, a Notary Public in and for said State, personally appeared
Robert C. Martin
~~Oletha P. Martin~~
known to me to be the person whose name is subscribed to the within instrument and acknowledged that they executed the same.
WITNESS my hand and official seal.

Signature David L. Johnson

DAVID L. JOHNSON
Name (Typed or Printed)

Notary Public, Richmond Co., Georgia
My Commission expires Sept. 20, 1968

498

Title Order No. Escrow or Loan No. 6634374 CM:ics

File No. 8417, San Pedro High School, Title Additions

MAIL TAX STATEMENTS AS DIRECTED ABOVE

RECORDING REQUESTED BY

500

AND WHEN RECORDED MAIL TO

Name
Street Address
City & State

REAL ESTATE BRANCH SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

RECORDED IN OFFICIAL RECORDS
OF LOS ANGELES COUNTY, CALIF.
OR TITLE INSURANCE & TRUST CO.
OCT 26 1967 AT 8 A.M.
RAY E. LEE, County Recorder

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

Name
Street Address
City & State

BOARD OF EDUCATION
CITY OF LOS ANGELES

[illegible] - NO TAX STATEMENT

FREE

# Grant Deed

AFFIX I.R.S. $ 13.20 ABOVE

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

JAMES H. CAMPBELL and FRANCES CAMPBELL, husband and wife

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
County of Los Angeles, State of California:

The northerly 50 feet of lot 6 in block 8 of Vista Del Oro, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 37 page 59 of Maps, in the office of the county recorder of said county.

Subject to:

Taxes for 1967-1968, a lien not yet payable.

Dated Oct 7, 1967

James H Campbell
James H. Campbell

Frances Campbell
Frances Campbell

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss
On OCTOBER 9th 1967 before me, the undersigned, a Notary Public in and for said State, personally appeared James H. Campbell, Frances Campbell

known to me to be the person(s) whose name(s) are subscribed to the within instrument and acknowledged to me that they executed the same

WITNESS my hand and official seal.

Frank R. Falk
FRANK R. FALK
My Commission Expires June 6, 1970

OFFICIAL SEAL
FRANK R. FALK
NOTARY PUBLIC - CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY

500

Title Order No. Escrow or Loan No.

MAIL TAX STATEMENTS AS DIRECTED ABOVE

RECORDING REQUESTED BY

500

AND WHEN RECORDED MAIL TO

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX STATEMENT"

T. I. REC

# Grant Deed

AFFIX I.R.S. $ 13.20 ABOVE

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

OCT 26 '67

I, MILO M. WATT, Director of Real Estate, Board of Education of Los Angeles Unified School District of Los Angeles County, hereby certify that the Grant Deed dated October 7, 1967, from JAMES H. CAMPBELL and FRANCES CAMPBELL, husband and wife, conveying the northerly 50 feet of Lot 6 in Block 8 of Vista Del Oro to LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY as a portion of the San Pedro High School Site was accepted by the Board of Education of the City of Los Angeles at its meeting held on October 23, 1967.

Milo M. Watt

24th October 7

Carl W. Martin

NOTARY ... of Los ...

ea

500

STATE OF CALIFORNIA }
COUNTY OF Los Angeles } ss.

On OCTOBER 9th 1967 before me, the undersigned, a Notary Public in and for said State, personally appeared James H. Campbell
Frances Campbell

known to me to be the person.s whose name.s are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

Signature Frank R. Falk

FRANK R. FALK
My Commission Expires ... 1970
Name (Typed or Printed)

Frances Campbell

OFFICIAL SEAL
FRANK R. FALK
NOTARY PUBLIC - CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY

(This area for official notarial seal)

500

Title Order No. Escrow or Loan No. 6635107 CMH:cg

File No. 8408, San Pedro High School, Third Addition

MAIL TAX STATEMENTS AS DIRECTED ABOVE

RECORDING REQUESTED BY

517

AND WHEN RECORDED MAIL TO

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
BOARD OF EDUCATION
CITY OF LOS ANGELES
450 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

BOARD OF EDUCATION
CITY OF LOS ANGELES

T. I. REC NOV 29 '67

# Grant Deed

AT'Y'S FEES, $ 25.30 Amt.

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

WILBERT H. HODGSON and ANTOINETTE D. HODGSON, husband and wife

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
County of Los Angeles, State of California:

Lot 18 in Block 8 of Vista Del Oro, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 37 page 59 of Maps, in the office of the county recorder of said county.

Subject to:

Taxes for 1967-1968, a lien not yet payable.

Dated October 20, 1967

Wilbert H. Hodgson
Wilbert H. Hodgson

Antoinette D. Hodgson
Antoinette D. Hodgson

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On October 20, 1967 before me, the undersigned a Notary Public in and for said State, personally appeared
Wilbert H. Hodgson
Antoinette D. Hodgson

known to me to be the person S whose name S are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

Signature Mary E. Jarrin
MARY E. JARRIN

My Commission Expires August 9, 1971
Name (Typed or Printed)

MARY E. JARRIN
NOTARY PUBLIC
STATE OF CALIFORNIA
COUNTY OF LOS ANGELES

(This area for official notarial seal)

517

Title Order No. Escrow or Loan No.

File No. 8419, San Pedro High School, Third Addition

MAIL TAX STATEMENTS AS DIRECTED ABOVE

T. I. REC NOV 29 1967

I, MILO M. WATT, Director of Real Estate, Board of Education of Los Angeles Unified School District of Los Angeles County, hereby certify that the Grant Deed dated October 20, 1967 from WILBERT H. HODGSON and ANTOINETTE D. HODGSON, husband and wife, conveying Lot 18 in Block 8 of Vista Del Oro to LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY as a portion of San Pedro High School Site was accepted by the Board of Education of the City of Los Angeles at its meeting held on November 20, 1967.

Milo M. Watt

21st November

Lois A. Corwin

517

ss

LOIS A. CORWIN
NOTARY PUBLIC
STATE OF CALIFORNIA
COUNTY OF LOS ANGELES

, known to me to be the person S whose name S are subscribed to the within instrument and acknowledged that they executed the same. WITNESS my hand and official seal.

Signature Mary E. Jarrin
MARY E. JARRIN

My Commission Expires August 9, 1971
Name (Typed or Printed)

MARY E. JARRIN
NOTARY PUBLIC
STATE OF CALIFORNIA
COUNTY OF LOS ANGELES

517

Title Order No. Escrow or Loan No.

File No. 8419, San Pedro High School, Third Addition
MAIL TAX STATEMENTS AS DIRECTED ABOVE

RECORDING REQUESTED BY

537

AND WHEN RECORDED MAIL TO

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

BOARD OF EDUCATION
CITY OF LOS ANGELES

DOCUMENTARY
DEC-5'67 PB METER 15016
0 1 R 2 0

"PUBLIC AGENCY - NO TAX STATEMENT"

# Grant Deed

AFFIX I.R.S. $ 18.70 ABOVE

TO 605 C (4-67)

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

KUITO OLAVI AHTONEN and ALLI T. AHTONEN, husband and wife

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
County of Los Angeles, State of California:

The southerly 85 feet of lot 6, in block 8 of Vista Del Oro, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 37, page 59 of Maps, in the office of the county recorder of said county.

Subject to:

Taxes for 1967-1968, a lien not yet payable.

Dated NOVEMBER 15, 1967

Kuito Olavi Ahtonen
Kuito Olavi Ahtonen

Alli T. Ahtonen
Alli T. Ahtonen

STATE OF CALIFORNIA
COUNTY OF Los Angeles } SS.

On NOVEMBER 15, 1967 before me, the undersigned, a Notary Public in and for said State, personally appeared Kuito Olavi Ahtonen
Alli T. Ahtonen
known to me to be the person s whose name s are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

Signature Anthony Marino

ANTHONY MARINO
Name (Typed or Printed)

ANTHONY MARINO
NOTARY PUBLIC - CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY
My Commission Expires July 19, 1969

(This area for official notarial seal)

Title Order No. Escrow or Loan No.

File No. 8407, San Pedro High School, Third Addition

MAIL TAX STATEMENTS AS DIRECTED ABOVE

T. L. REC DEC 5 '67

537

RECORDING REQUESTED BY

T. I. REC

DEC 5 '67

I, MILO M. WATT, Director of Real Estate, Board of Education of Los Angeles Unified School District of Los Angeles County, hereby certify that the Grant Deed dated November 15, 1967 from KUYTO OLAVI AHTONEN and ALLI T. AHTONEN, husband and wife, conveying the southerly 85 feet of Lot 6 in Block 8 of Vista Del Oro to LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY as a portion of the San Pedro High School Site was accepted by the Board of Education of the City of Los Angeles at its meeting held on November 30, 1967.

Milo M. Watt

Subscribed and sworn to before me this
1st day of December, 1967

NOTARY PUBLIC in and for the County of Los Angeles, State of California

as

OFFICIAL SEAL
ANITA A. CHERNOW
NOTARY PUBLIC - CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY

537

Title Order No.

RECORDING REQUESTED BY

661

AND WHEN RECORDED MAIL TO

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

MAIL TAX STATEMENTS TO

BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY – NO TAX STATEMENT"

SPACE ABOVE THIS LINE FOR RECORDER'S USE

DOCUMENTARY

DEC 8 '67

T. I. REC DEC 8 '67

# Grant Deed

AFFIX I.R.S. $ 33.00 ABOVE

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

VICE IVANOV and DANICA IVANOV, husband and wife

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
County of Los Angeles, State of California:

The southerly 40 feet of Lot 24 in Block 8 of Vista Del Oro, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 37 page 59 of Maps, in the office of the county recorder of said county.

Subject to:

Taxes for 1967-1968, a lien not yet payable.

Dated Nov 14, 1967

Vice Ivanov
Vice Ivanov

Danica Ivanov
Danica Ivanov

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On NOV 14 1967 before me, the undersigned, a Notary Public in and for said State, personally appeared Vice Ivanov and Danica Ivanov

known to me to be the person s whose name s are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

Signature Myrtle Hall
MYRTLE HALL
My Commission Expires Aug. 6, 1969
NOTARY PUBLIC Name (Typed or Printed)

OFFICIAL SEAL
MYRTLE HALL
NOTARY PUBLIC-CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY

(This area for official notarial seal)

Myrtle Hall — Notary Public
2022 S. Pacific Avenue
San Pedro, Calif. 90731
TE 2-4799

Title Order No. Escrow or Loan No.

SEND SUBSEQUENT TAX STATEMENTS AS DIRECTED ABOVE

File No. 8424, San Pedro High School Addition

661

T. I. REC

DEC 8 '67

Los Angeles Unified School District of Los Angeles County

I, MILO M. WATT, Director of Real Estate, Board of Education of Los Angeles Unified School District of Los Angeles County, hereby certify that the Grant Deed dated November 14, 1967, from VICE IVANOV and DANICA IVANOV, husband and wife, conveying the southerly 40 feet of Lot 24 in Block 8 of Vista Del Oro to LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY as a portion of the San Pedro High School Site was accepted by the Board of Education of the City of Los Angeles at its meeting held on December 4, 1967.

Milo M. Watt

5th December 67

Lena A. Carmichael

NOTARY PUBLIC in and for the County of Los Angeles, State of California

ea

OFFICIAL SEAL
LENA A. CARMICHAEL
NOTARY PUBLIC - CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY

661

known to me

to be the person whose name is are subscribed to the

instrument and acknowledged that they executed the

WITNESS my hand and official seal.

Signature Myrtle Hall

MYRTLE HALL

My Commission Expires Aug. 6, 1969

NOTARY PUBLIC

Name (Typed or Printed)

Myrtle Hall — Notary Public
[illegible] S. Pacific Avenue
San Pedro, Calif. 90731
TE 2-4233

OFFICIAL SEAL
MYRTLE HALL
NOTARY PUBLIC - CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY

661

Title Order No. Escrow or Loan No.

File No. 8424, San Pedro High Subdivision Added Lot

STATEMENTS AS DIRECTED ABOVE

RECORDING REQUESTED BY

445

AND WHEN RECORDED MAIL TO

Name
Street Address
City & State

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

RECORDED IN OFFICIAL RECORDS OF LOS ANGELES COUNTY, CALIFORNIA
FOR TITLE INSURANCE AND TRUST COMPANY
JAN 11 1968 AT 8 A.M.
RAY E. LEE, County Recorder

FEE 2.G

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

Name
Street Address
City & State

BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX STATEMENT"

$4.95 LOS ANGELES COUNTY DOCUMENTARY STAMP TAX
JAN 11 1968
$22.00 LOS ANGELES COUNTY DOCUMENTARY STAMP TAX

# Grant Deed

ADD'L R.S. $ 26.95 ABOVE

TO 405 C (4-67)

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

LAWRENCE J. FRANTA and ILKA A. FRANTA, husband and wife

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles County of Los Angeles, State of California:

Lot 19 in block 8 of Vista de Oro, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 37 page 59 of Maps, in the office of the county recorder of said county.

Subject to:

Taxes for second installment 1967-1968.

Dated 12/6/67

Lawrence J. Franta
Lawrence J. Franta

Ilka A. Franta
Ilka A. Franta

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.
On DECEMBER 6, 1967 before me, the undersigned, a Notary Public in and for said State, personally appeared
Lawrence J. Franta
Ilka A. Franta

known to me to be the person s whose name s are subscribed to the within instrument and acknowledged that they executed the same.
WITNESS my hand and official seal.

Signature Morris Harry Siegel
MORRIS HARRY SIEGEL
Name (Typed or Printed)

Official Seal
MORRIS HARRY SIEGEL
NOTARY PUBLIC IN AND FOR
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY
My Commission Expires Sept. 14, 1968

445

Title Order No. Escrow or Loan No.

File No. 8420, San Pedro High School - Third Addition

MAIL TAX STATEMENTS AS DIRECTED ABOVE

1-11-68

RECORDING REQUESTED BY

445

AND WHEN RECORDED MAIL TO

Name
Street Address
City & State

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

RECORDED IN OFFICIAL RECORDS OF LOS ANGELES COUNTY, CALIFORNIA
FOR TITLE INSURANCE AND TRUST COMPANY
JAN 11 1968 AT 8 A.M.
RAY E. LEE, County Recorder

FEE 2.00

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

Name
Street Address
City & State

BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX STATEMENT"

$4.95 $22.00

LOS ANGELES COUNTY DOCUMENTARY STAMP TAX JAN 11 1968

LOS ANGELES COUNTY DOCUMENTARY STAMP TAX

# Grant Deed

AFFIX I.R.S. $ 26.95 ABOVE

TO 405 C (4-67)

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

LAWRENCE J. FRANTA and ILKA A. FRANTA, husband and wife

I, MILO M. WATT, Director of Real Estate, Board of Education of Los Angeles Unified School District of Los Angeles County, hereby certify that the Grant Deed dated Ddcember 6, 1967 from LAWRENCE J. FRANTA and ILKA A. FRANTA, husband and wife, conveying Lot 19 in block 8 of Vista Del Oro, to the LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY, as a portion of the San Pedro High School Site, was accepted by the Board of Education of the City of Los Angeles at its meeting held on January 2, 1968.

Milo M. Watt

Subscribed and sworn to before me this
2nd day of January, 1968
Ruth Greene
NOTARY PUBLIC in and for the County
of Los Angeles, State of California

445

CE

RECORDING REQUESTED BY

449

AND WHEN RECORDED MAIL TO

Name / Street Address / City & State:
REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

OFFICIAL RECORDS OF LOS ANGELES COUNTY, CALIF.
FOR TITLE INSURANCE & TRUST CO.
JAN 16 1968 AT 8 A.M.
RAY E. LEE, County Recorder

FREE N

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

Name / Street Address / City & State:
BOARD OF EDUCATION
CITY OF LOS ANGELES

$11.00 — LOS ANGELES COUNTY — JAN 16 1968 — DOCUMENTARY STAMP TAX
$5.50 — LOS ANGELES COUNTY — JAN 16 1968 — DOCUMENTARY STAMP TAX
$4.40 — LOS ANGELES COUNTY — JAN 16 1968 — DOCUMENTARY STAMP TAX

ESCROW AGENCY — NO TAX DETERMINATION

# Grant Deed

A F 3
SCHS [illegible] - 20.90

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

**DONALD W. McGUIRE, a single man**

hereby GRANT(S) to

**Los Angeles Unified School District of Los Angeles County**

the following described real property in the City of Los Angeles, State of California:
County of **Los Angeles**

**Lots 1 and 2 in block 8 of Vista Del Oro, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 37 page 59 of Maps, in the office of the county recorder of said county.**

**EXCEPT the east 75 feet thereof.**

Subject to:

Taxes for 1967-1968, a lien not yet payable.

Dated November 30, 1967

Donald W. McGuire

STATE OF CALIFORNIA
COUNTY OF Los Angeles
On November 30, 1967
Donald W. McGuire

is
he

My Commission Expires

File No. 8206, San Pedro High School, Third Addition

MAIL TAX STATEMENTS AS DIRECTED ABOVE

1-16-68

RECORDING REQUESTED BY

115

AND WHEN RECORDED MAIL TO

Name
Street Address
City & State

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

[illegible] OFFICIAL RECORDS OF LOS ANGELES COUNTY, CAL. FIDELITY TITLE INSURANCE & TRUST CO.
JAN 16 1968 AT 8 A.M.
RAY E. LEE, County Recorder

FREE N

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

Name
Street Address
City & State

BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX [illegible]"

$11.00 — LOS ANGELES COUNTY — DOCUMENTARY STAMP TAX
$5.50 — LOS ANGELES COUNTY — JAN 16 1968 — DOCUMENTARY STAMP TAX
$4.40 — LOS ANGELES COUNTY — JAN 16 1968 — DOCUMENTARY STAMP TAX

# Grant Deed

DTS
Affix [illegible] $ 20.90 Above

I, MILO M. WATT, Director of Real Estate, Board of Education of Los Angeles Unified School District of Los Angeles County, hereby certify that the Grant Deed dated November 30, 1967, from DONALD W. McGUIRE, a single man, conveying Lots 1 and 2 in Block 8 of Vista Del Oro, except the east 75 feet thereof, to LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY as a portion of the San Pedro High School Site was accepted by the Board of Education of the City of Los Angeles at its meeting held on December 1[illegible], 1967.

Milo M. Watt

115

11th December, 1967

Lee M. Cannon
NOTARY PUBLIC in and for said County
of Los Angeles, State of California

ea

Dated November 30, 1967

Donald W. McGuire

STATE OF CALIFORNIA
COUNTY OF Los Angeles
On November 30, 1967
Donald W. McGuire

is
he

Dorothy Sanders
NOTARY PUBLIC in and for said County
My Commission Expires Oct. 12, 1969

Title Order No. [illegible] Escrow or Loan No. [illegible]

File No. 8.04, San Pedro High School, Third Addition

MAIL TAX STATEMENTS AS DIRECTED ABOVE

RECORDING REQUESTED BY

400

AND WHEN RECORDED MAIL TO

Name
Street Address
City & State

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

Name
Street Address
City & State

BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX STATEMENTS"

AFFIX ~~I.R.S.~~ $ 165.00 IN THIS SPACE

$110.00 LOS ANGELES COUNTY

$55.00 LOS ANGELES COUNTY

JAN 19 1968

# Grant Deed

10 403 C

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,
GARY T. GREENE and MARGARET E. GREENE, husband and wife

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
County of Los Angeles, State of California:

Lot 20 and the southerly 20 feet of lot 21 in Block 8 of Vista Del Oro, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 37 page 59 of Maps, in the office of the county recorder of said county.

Subject to:

Taxes for 1967-1968.

Dated December 8, 1967

Gary T. Greene

Margaret E. Greene

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On December 8, 1967 before me, the undersigned, a Notary Public in and for said State, personally appeared Gary T. Greene and Margaret E. Greene, ~~husband and wife~~ known to me to be the person ~~s~~ whose name ~~s~~ ~~are~~ subscribed to the within instrument and acknowledged that ~~he~~ they executed the same.

WITNESS my hand and official seal.

Signature Ruth N. Randall

Ruth N. Randall
Name (Typed or Printed)

RUTH N. RANDALL
NOTARY PUBLIC - CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY

My Commission Expires September 13, 1971

(This area for official notarial seal)

Title Order No. Escrow or Loan No. 663519-4 CMH:ion

File No. 8421, San Pedro High School, Third Addition

MAIL TAX STATEMENTS AS DIRECTED ABOVE

T. I. REC JAN 19 '68

400

T. I. REC JAN 1968

I, MILO M. WATT, Director of Real Estate, Board of Education of Los Angeles Unified School District of Los Angeles County, hereby certify that the Grant Deed dated December 8, 1967, from GARY T. GREENE and MARGARET E. GREENE, husband and wife, conveying Lot 20 and the southerly 20 feet of Lot 21 in Block 8 of Vista Del Oro to LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY as a portion of the San Pedro High School Site was accepted by the Board of Education of the City of Los Angeles at its meeting held on January 15, 1968.

400

Milo M. Watt

16th day of January, 1968

Len A. Rotwin

ca

OFFICIAL SEAL
LEN A. ROTWIN
NOTARY PUBLIC - CALIFORNIA
LOS ANGELES COUNTY

499

RECORDING REQUESTED BY

AND WHEN RECORDED MAIL TO

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX STATEMENT"

AFFIXED $ 16.50 IN THIS SPACE
State Documentary Stamp Tax

$11.00 FEB 9 1968 LOS ANGELES COUNTY DOCUMENTARY STAMP TAX

$5.50 FEB 9 1968 LOS ANGELES COUNTY DOCUMENTARY STAMP TAX

T. I. REC FEB 9 '68

# Grant Deed

TO (NO. & ST.)

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

FRANCIS V. WOND and MAGDALINA C. WOND, husband and wife

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

I, MILO M. WATT, Director of Real Estate, Board of Education of Los Angeles Unified School District of Los Angeles County, hereby certify that the Grant Deed dated January 15, 1968, from FRANCIS V. WOND and MAGDALINA C. WOND, husband and wife, conveying The Easterly 35 feet of Lots 1 and 2, in Block 8 of Vista Del Oro, to the LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY, as a portion of the San Pedro High School Site, was accepted by the Board of Education of the City of Los Angeles at its meeting held on February 5, 1968.

Milo M. Watt

499

Subscribed and sworn to before me this 6th day of February, 1968

NOTARY PUBLIC in and for the County of Los Angeles, State of California

LILA COSWIN

_____ known to me to be the person_s whose name_s are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

Signature Nancy E. Orson

NANCY E. ORSON

Name (Typed or Printed)

499

Title Order No. Escrow or Loan No.

RECORDING REQUESTED BY

499

AND WHEN RECORDED MAIL TO

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX STATEMENTS"

AFFIX XXXX $ 16.50 IN THIS SPACE
State Documentary Stamp Tax

$11.00 FEB 9 1968 LOS ANGELES COUNTY DOCUMENTARY STAMP TAX

$5.50 FEB 9 1968 LOS ANGELES COUNTY DOCUMENTARY STAMP TAX

T. I. REC FEB 9 '68

# Grant Deed

10 455 C THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

FRANCIS V. WOND and MAGDALINA C. WOND, husband and wife

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
County of Los Angeles, State of California:

The Easterly 35 feet of Lots 1 and 2, in Block 8 of Vista Del Oro, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 37 page 59 of Maps, in the office of the county recorder of said county.

Subject to:

Taxes for second half of 1967-1968.

Dated 1-15-68

Francis V. Wond
Francis V. Wond

Magdalina C. Wond
Magdalina C. Wond

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss

On January 15, 1968 before me, the undersigned, a Notary Public in and for said State, personally appeared Francis V. Wond and Magdalina C. Wond known to me to be the person s whose name s are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

Signature Nancy F. Olson
NANCY F. OLSON
Name (Typed or Printed)

(This area for official notarial seal)

499

Title Order No. Escrow or Loan No.

File No. 8406, San Pedro High School Addition

MAIL TAX STATEMENTS AS DIRECTED ABOVE

RECORDING REQUESTED BY

416

AND WHEN RECORDED MAIL TO

Name
Street Address
City & State

REAL ESTATE BRANCH. SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES. CALIFORNIA 90054

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

Name
Street Address
City & State

BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX STATEMENT"

$3.30 $55.00 $22.00 $5.50

MAR 4 LOS ANGELES COUNTY DOCUMENTARY STAMP TAX

AFFIXED $ 85.80 IN THIS State Documentary Stamp Tax

T. I. REC MAR 4 '68

# Grant Deed

1968 1968 1968

10 401 C THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

ANDREA SORIC and KATICA SORIC, husband and wife

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
County of Los Angeles, State of California:

Lots 13 and 15 in block 8 of Vista Del Oro, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 37 page 59 of Maps, in the office of the county recorder of said county.

Subject to:

Taxes for second half of 1967-1968.

Dated January 15, 1968

Andrea Soric
Andrea Soric

Katica Soric
Katica Soric

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On January 15, 1968 before me, the undersigned, a Notary Public in and for said State, personally appeared Andrea Soric and Katica Soric

known to me to be the person s whose name s are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

Signature Georgia Dreyer

Name (Typed or Printed)

My Commission Expires Sept. 14, 1969

(This area for official notarial seal)

416

Title Order No. Escrow or Loan No. 66350276 Gilliam

File No. 8415, San Pedro High School, Third Addition

MAIL TAX STATEMENTS AS DIRECTED ABOVE

T. I. REC

MAR 4 '68

416

I, MILO M. WATT, Director of Real Estate, Board of Education of Los Angeles Unified School District of Los Angeles County, hereby certify that the Grant Deed dated January 15, 1968, from ANDREA SORIC and KATICA SORIC, husband and wife, conveying Lots 13 and 15 in block 8 of Vista Del Oro to LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY as a portion of the San Pedro High School Site was accepted by the Board of Education of the City of Los Angeles at its meeting held on February 13, 1968.

Milo M. Watt

Subscribed and sworn to before me this 14th day of February, 1968

NOTARY PUBLIC in and for the County of Los Angeles, State of California

LOIS A. COLWIN
NOTARY PUBLIC - CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY

442

RECORDING REQUESTED BY

AND WHEN RECORDED MAIL TO

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX STATEMENT"

AFFIX $ 31.35 IN THIS S
State Documentary Stamp T

$22.00 LOS ANGELES COUNTY
$5.50 LOS ANGELES COUNTY
$3.85 LOS ANGELES COUNTY

T. I. REC MAR 8 '68

# Grant Deed

TO SAVE C

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

VINCENT F. ZAMBERLIN and MINNIE A. ZAMBERLIN, husband and wife

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
County of Los Angeles, State of California:

Lot 7 in Block 8 of the Vista Del Oro Tract, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 37 page 59 of Maps, in the office of the county recorder of said county.

Subject to:

Taxes for second half of 1967-1968.

Dated February 12, 1968

Vincent F. Zamberlin

Minnie A. Zamberlin

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.
On February 12, 1968 before me, the undersigned, a Notary Public in and for said State, personally appeared
Vincent F. Zamberlin
Minnie A. Zamberlin
known to me to be the person s whose name s are subscribed to the within instrument and acknowledged that they executed the same.
WITNESS my hand and official seal.

Signature Violet Pence
VIOLET PENCE
My Commission Expires March 14, 1969
Name (Typed or Printed)

VIOLET PENCE
NOTARY PUBLIC
STATE OF CALIFORNIA
COUNTY OF LOS ANGELES

(This area for official notarial seal)

Title Order No. Escrow or Loan No. 6696603-CNH:rm

File No. 8469, San Pedro High School 3rd Addition

MAIL TAX STATEMENTS AS DIRECTED ABOVE

442

RECORDING REQUESTED BY

395

AND WHEN RECORDED MAIL TO

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX STATEMENT"

AFFIX $ 26.40 IN THIS SPACE

$22.00 $4.40

State Documentary Stamp Tax

MAR 21 1968

T. I. REC MAR 21 '68

# Grant Deed

TO 405 C THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

JACOB SCHNELL and MARY SCHNELL, husband and wife

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
County of Los Angeles, State of California:

Lot 12 in Block 8 of Vista Del Oro, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 37, page 59 of Maps, in the office of the county recorder of said county.

Subject to:

Taxes for second half of 1967-1968.

Dated February 24, 1968

Jacob Schnell
Jacob Schnell

Mary Schnell
Mary Schnell

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On Feb 24 1968 before me, the undersigned, a Notary Public in and for said State, personally appeared
Jacob Schnell
Mary Schnell
known to me to be the person s whose name s are subscribed to the within instrument and acknowledged that they executed the same.
WITNESS my hand and official seal.

Signature Imogene Meyer
Name (Typed or Printed)

OFFICIAL SEAL
IMOGENE MEYER
NOTARY PUBLIC - CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY

IMOGENE MEYER
My Commission Expires Sept. 14, 1969

(This area for official notarial seal)

Title Order No. Escrow or Loan No. 6636605 CMH:cn

File No. 8414, San Pedro High School - Third Addition

MAIL TAX STATEMENTS AS DIRECTED ABOVE

395

RECORDING REQUESTED BY

416

AND WHEN RECORDED MAIL TO

Name / Street Address / City & State:
REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

Name / Street Address / City & State:
BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX STATEMENT"

AFFIX $ 28.60 IN THIS SPACE

State Documentary Stamp Tax

$22.00 LOS ANGELES COUNTY $5.50 LOS ANGELES COUNTY $1.10 LOS ANGELES COUNTY

3-28-1968

T. I. REC MAR 28 '68

# Grant Deed

TO 403 C

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

JOSEPH ZUANICH and ANNA MARIE ZUANICH, husband and wife

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
County of Los Angeles, State of California:

Lot 11 in Block 8 of Vista Del Oro, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in book 37 page 59 of Maps, in the office of the county recorder of said county.

Subject to:

Taxes for second half of 1967-1968.

Dated March 6, 1968

Joseph Zuanich
Joseph Zuanich

Anna Marie Zuanich
Anna Marie Zuanich

STATE OF CALIFORNIA
COUNTY OF Los Angeles } SS.

On March 6, 1968 before me, the undersigned, a Notary Public in and for said State, personally appeared
Joseph Zuanich
Anna Marie Zuanich

known to me to be the person s whose name s are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

Signature Anthony Marino

Name (Typed or Printed)

ANTHONY MARINO
NOTARY PUBLIC - CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY
My Commission Expires July 19, 1969

(This area for official notarial seal)

416

Title Order No. Escrow or Loan No. 6636614 CMH:bm

File No. 8413, San Pedro High School, Third Addition

MAIL TAX STATEMENTS AS DIRECTED ABOVE

T. I. REC MAR 28 '68

Los Angeles Unified School District of Los Angeles County

I, MILO M. WATT, Director of Real Estate of the Board of Education of Los Angeles Unified School District of Los Angeles County, hereby certify that the Grant Deed dated March 6, 1968 from JOSEPH ZUANICH and ANNA MARIE ZUANICH, husband and wife, conveying Lot 11 in Block 8 of Vista Del Oro to LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY as a portion of the San Pedro High School Site was accepted by the Board of Education of the City of Los Angeles at its meeting held on March 25, 1968.

Milo M. Watt

Subscribed and sworn to before me this
26th day of March, 1968
Carl W. Mertens
NOTARY PUBLIC in and for the County of Los Angeles, State of California

CARL W. MERTENS
My Commission Expires August 31, 1971

OFFICIAL SEAL
CARL W. MERTENS
NOTARY PUBLIC - CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY

416

_____, known to me to be the person s whose name s are subscribed to the within instrument and acknowledged that they executed the same.
WITNESS my hand and official seal.
Signature Anthony Marino
Name (Typed or Printed)

ANTHONY MARINO
NOTARY PUBLIC - CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY
My Commission Expires July 19, 1969

(This area for official notarial seal)

416

Title Order No. _____ Escrow or Loan No. 6636614 CMH:bm
File No. 8413, San Pedro High School, Third Addition
MAIL TAX STATEMENTS AS DIRECTED ABOVE

RECORDING REQUESTED BY

756

AND WHEN RECORDED MAIL TO

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX STATEMENT"

AFFIX [redacted] $ 27.50 IN THIS S:

$22.00 LOS ANGELES COUNTY TRANSFER TAX

$2.75 LOS ANGELES COUNTY TRANSFER TAX

$2.75 LOS ANGELES COUNTY TRANSFER TAX

State Documentary Stamp Tax

T. I. REC MAR 29 '68

# Grant Deed

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,
also known as Raymond Paul Kramer
RAYMOND P. KRAMER/and PEARL O. KRAMER, husband and wife

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
County of Los Angeles, State of California:

Lot 14 in block 8 of Vista Del Oro, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 37 page 59 of Maps, in the office of the county recorder of said county.

Subject to:

Taxes for second half of 1967-1968.
Dated February 27, 1968

Raymond P. Kramer
Raymond P. Kramer

Pearl O. Kramer
Pearl O. Kramer

STATE OF CALIFORNIA
COUNTY OF Los Angeles } SS.

On February 27, 1968 before me, the undersigned, a Notary Public in and for said State, personally appeared
Raymond P. Kramer
Pearl O. Kramer

known to me to be the person s whose name s are subscribed to the within instrument and acknowledged that they executed the same.
WITNESS my hand and official seal.

Signature Imogene Meyer

Name (Typed or Printed)

OFFICIAL SEAL
IMOGENE MEYER
NOTARY PUBLIC - CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY

My Commission Expires Sept. 14, 1968

(This area for official notarial seal)

Title Order No. Escrow or Loan No. 6636604 GMH:jan

File No. 8416, San Pedro High School Third Addition

MAIL TAX STATEMENTS AS DIRECTED ABOVE

756

RECORDING REQUESTED BY

441

AND WHEN RECORDED MAIL TO

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX STATEMENT"

Affixed is 34.10 in This Space
State Documentary Stamp Tax

$33.00 LOS ANGELES COUNTY DOCUMENTARY STAMP TAX

$1.10 LOS ANGELES COUNTY DOCUMENTARY STAMP TAX

APR 10 1968

T. I. REC

# Grant Deed

TO GET C

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

MARION A. CHUKA and ROSE V. CHUKA, husband and wife

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
County of Los Angeles, State of California:

The north 22.5 feet of Lot 21 and the south 31.25 feet of Lot 22 in block 8 of Vista Del Oro, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 37 page 59 of Maps, in the office of the county recorder of said county.

441

Subject to:

Taxes for 1967-1968.

Dated February 12, 1968

Marion A. Chuka

Marion A. Chuka

Rose V. Chuka

Rose V. Chuka

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On _____ before me, the undersigned, a Notary Public in and for said State, personally appeared

Marion A. Chuka
Rose V. Chuka

known to me to be the person ~~s~~ whose name ~~s~~ are subscribed to the within instrument and acknowledged that ~~s~~ they executed the same.

WITNESS my hand and official seal.

Signature _____

Name (Typed or Printed)

(This area for official notarial seal)

Title Order No. _____ Escrow or Loan No. 6635977 CMH:en

File No. 8422, San Pedro High School, Third Addition

MAIL TAX STATEMENTS AS DIRECTED ABOVE

RECORDING REQUESTED BY

470

AND WHEN RECORDED MAIL TO

Name / Street Address / City & State

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

Name / Street Address / City & State

BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX STATEMENT"

AFFIX ~~EXEMPT~~ $ 38.50 IN THIS SPACE

State Documentary Stamp Tax

$5.50 JUN 1968 LOS ANGELES COUNTY DOCUMENTARY STAMP TAX

$33.00 LOS ANGELES COUNTY JUN 1 1968 DOCUMENTARY STAMP TAX

T. I. REC JUN 12 '68 470

# Grant Deed

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

TO 403 C

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

DINKO PECARICH and RUBY PECARICH, husband and wife

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
County of Los Angeles, State of California:

Lots 22 and 23 in block 8 of Vista Del Oro, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 37 page 59 of Maps, in the office of the county recorder of said county.

EXCEPTING from said lot 22, the south 31.25 feet thereof.

Subject to:

Taxes for 1968-1969, a lien not yet payable.

Dated May 24, 1968

Dinko Pecarich
Dinko Pecarich

Ruby Pecarich
Ruby Pecarich

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On MAY 24 1968 before me, the undersigned, a Notary Public in and for said State, personally appeared Dinko Pecarich, Ruby Pecarich

known to me to be the person whose name subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

Signature Stephen M. Stambuk

STEPHEN M. STAMBUK
NOTARY PUBLIC CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY
My Commission Expires Jan. 30, 1970

(This area for official notarial seal)

Title Order No. Escrow or Loan No. 6636632 CMH:on

File No. 8423, San Pedro High School Addition

SEND TAX STATEMENTS AS DIRECTED ABOVE

T. I. REC

JUN 12 '68

470

I, MILO M. WATT, Director of Real Estate, Board of Education of Los Angeles Unified School District of Los Angeles County, hereby certify that the Grant Deed dated May 24, 1968, from DINKO PECARICH and RUBY PECARICH, husband and wife, conveying Lots 22 and 23 in Block 8 ofVista Del Oro, excepting from said Lot 22 the south 31.25 feet thereof, to LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY as a portion of the San Pedro High School Site was accepted by the Board of Education of the City of Los Angeles at its meeting held on June 6, 1968.

Milo M. Watt

Subscribed and sworn to before me this 7th day of June, 1968

Lin A. Corwin

NOTARY PUBLIC in and for the County of Los Angeles, State of California

OFFICIAL SEAL
LIN A. CORWIN
NOTARY PUBLIC - CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY

es

NOTARY PUBLIC CERTIFICATE
(PRINCIPAL OFFICE IN LOS ANGELES COUNTY)
My Commission Expires Jan. 30, 1970

(This area for official notarial seal)

Escrow or Loan No. 6636632 CMH:cn

Title Order No.

Place Address Here

Mail Subsequent STATEMENTS AS DIRECTED ABOVE

RECORDING REQUESTED BY

404

AND WHEN RECORDED MAIL TO

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX STATEMENT"

DOCUMENTARY TRANSFER TAX $ 37.65
SIGNED - PARTY OR AGENT — FIRM NAME T. I. & T. Co.

AFFIX $ 34.65 IN THIS SPACE

State Documentary Stamp Tax

# Grant Deed

TO 403 C — THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

ARTHUR F. PAULSEN and VIOLA L. PAULSEN, husband and wife

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
County of Los Angeles, State of California:

Lot 9 in Block 8 of Vista Del Oro, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in book 37 page 59 of Maps, in the office of the county recorder of said county.

Subject to:

Taxes for the fiscal year 1968-1969, a lien not yet payable.

Dated May 28, 1968

Arthur F. Paulsen

Viola L. Paulsen

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On June 5, 1968 before me, the undersigned, a Notary Public in and for said State, personally appeared
Arthur F. Paulsen
Viola L. Paulsen

known to me to be the person s whose name s are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

Signature Janet T. Halliday

Janet T. Halliday
Name (Typed or Printed)

OFFICIAL SEAL
JANET T. HALLIDAY
NOTARY PUBLIC - CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY

(This area for official notarial seal)

My Commission Expires Oct. 26, 1969

Title Order No. Escrow or Loan No. 6638121 CMH:en

MAIL TAX STATEMENTS AS DIRECTED ABOVE

File No. 8411, San Pedro High School Jr. Addition

T. I. REC JUL 17 '68

404

T. I. REC JUL 17 '68

404

I, MILO M. WATT, Director of Real Estate, Board of Education of Los Angeles Unified School District of Los Angeles County, hereby certify that the Grant Deed dated May 28, 1968, from ARTHUR F. PAULSEN and VIOLA L. PAULSEN, husband and wife, conveying Lot 9 in Block 8 of Vista Del Oro to LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY as a portion of the San Pedro High School Site was accepted by the Board of Education of the City of Los Angeles at its meeting held on July 15, 1968.

Milo M. Watt

Subscribed and sworn to before me this
16th day of July, 1968

Lois J. Corwin
NOTARY PUBLIC in and for the County
of Los Angeles, State of California

ca

OFFICIAL SEAL
LOIS J. CORWIN
NOTARY PUBLIC - CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY

RECORDING REQUESTED BY ( )

483 ( )

AND WHEN RECORDED MAIL TO

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX STATEMENT"

DOCUMENTARY TRANSFER TAX $12.72
Los Angeles City School Districts
Paul Bernal
SIGNED, Agent.

# Grant Deed

APN# [redacted] 6 ..... Above

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

HELEN C. SANDERSON, a single woman

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
County of Los Angeles, State of California:

The south half of lot 3, in block 8 of Vista Del Oro, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 37, page 39 of Maps, in the office of the county recorder of said county.

Subject to:

Taxes for the fiscal year 1968-1969, a lien not yet payable.

Dated September 4, 1968

Helen C. Sanderson

Helen C. Sanderson

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On September 5, 1968 before me, the undersigned, a Notary Public in and for said State, personally appeared Helen C. Sanderson

known to me to be the person whose name is subscribed to the within instrument and acknowledged that she executed the same.

WITNESS my hand and official seal.

Signature Betty Ann Morrison

Name (Typed or Printed)

OFFICIAL SEAL
BETTY ANN MORRISON
NOTARY PUBLIC - CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY
My Commission Expires May 3, 1972

(This area for official notarial seal)

Title Order No. Escrow or Loan No. 663923-CM-Hicn

MAIL TAX STATEMENTS AS DIRECTED ABOVE.

File No. 8610, San Pedro High School (Addition)

T. I. REC. OCT 23 '68

483

T. I. REC'D OCT 23 68

I, MILO M. WATT, Director of Real Estate, Board of Education of Los Angeles Unified School District of Los Angeles County, hereby certify that the Grant Deed dated September 4, 1968 from HELEN C. SANDERSON, a single woman, conveying the south half of Lot 3 in Block 6 of Vista Del Oro to LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY as a portion of the San Pedro High School Site was accepted by the Board of Education of the City of Los Angeles at its meeting held on September 30, 1968.

Milo M. Watt

Subscribed and sworn to before me this
30th day of September, 1968.
Freeman R. Graves
Notary Public in and for the County of Los Angeles, State of California

OFFICIAL SEAL
FREEMAN R. GRAVES
NOTARY PUBLIC CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY

483

Title Order No. _____ Escrow or Loan No. 66-00123-CM-RLD

File No. 8610, San Pedro High School 4th Addition

RECORDING REQUESTED BY

417

AND WHEN RECORDED MAIL TO

REAL ESTATE BRANCH. SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES. CALIFORNIA 90054

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX STATEMENT"

APN XXXX S..... IN THIS AREA

DOCUMENTARY TRANSFER TAX $ 62.70
Los Angeles City School Districts
Paul Bernal
SIGNED, Agent.

T. I. REC
NOV 7 '68

# Grant Deed

TO 405 C

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, ROBERT L. WARNOCK and SUZANNE S. WARNOCK, husband and wife, as joint tenants, as to an undivided one-third interest, GORDON A. WARNOCK and NANCY S. WARNOCK, husband and wife, as joint tenants, as to an undivided one-third interest and FRANCES R. WARNOCK, a single woman, as to an undivided one-third interest.

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
County of Los Angeles , State of California:

Lots 4 and 5 in block 8 of Vista Del Oro, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 37 page 59 of Maps, in the office of the county recorder of said county.

Subject to:

Taxes for fiscal year 1968-1969, a lien not yet payable.

Dated September 4, 1968

Robert L. Warnock

Suzanne S. Warnock

Gordon A. Warnock

Nancy S. Warnock

Frances R. Warnock

STATE OF CALIFORNIA
COUNTY OF Los Angeles } SS.

On September 4, 1968 before me, the undersigned, a Notary Public in and for said State, personally appeared Robert L. Warnock, Suzanne S. Warnock, Gordon A. Warnock, Nancy S. Warnock, Frances R. Warnock

known to me to be the person s whose name s are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

Signature L. E. Jensen

My Commission Expires January 14, 1970

Name (Typed or Printed)

OFFICIAL SEAL
L. E. JENSEN
NOTARY PUBLIC - CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY

417

Title Order No.

Escrow or Loan No. 00-392-37 Julian

File No. 8612, San Pedro High School Property Addition

MAIL TAX STATEMENTS AS DIRECTED ABOVE

RECORDING REQUESTED BY

180

AND WHEN RECORDED MAIL TO

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054
Attention DAW-HB

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX STATEMENT"

AFFIX ~~DOCKS~~ IN THIS SPACE

DOCUMENTARY TRANSFER TAX $ 17.60
Los Angeles City School Districts
SIGNED, Agent.

T. I. REC. JAN 9 '69

# Grant Deed

TITLE ORDER NO. THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,
NELLIE ACOSTA, an unmarried woman, and CARMEN ACOSTA ENCISO, a married woman, who acquired title as CARMEN ACOSTA, a single woman, mother and daughter, as joint tenants

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
County of Los Angeles, State of California:

The north half of lot 3 in block 8 of Vista Del Oro, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 37 page 59 of Maps, in the office of the county recorder of said county.

Free recording requested. Essential to Acquisition by the Los Angeles School District of Los Angeles County. See Govt. Code #6103.

Subject to:

Taxes for the fiscal year 1968-1969, a lien not yet payable.

Dated October 29, 1968

Nellie Acosta
Nellie Acosta

Carmen Acosta Enciso
Carmen Acosta Enciso

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On November 26, 1968 before me, the undersigned, a Notary Public in and for said State, personally appeared Nellie Acosta, Carmen Acosta Enciso

known to me to be the person s whose name s are subscribed to the within instrument and acknowledged that they executed the same.
WITNESS my hand and official seal.

Signature Thelma R. Templeton
Thelma R. Templeton
Name (Typed or Printed)

OFFICIAL SEAL
THELMA R. TEMPLETON
NOTARY PUBLIC - CALIFORNIA
LOS ANGELES COUNTY
My Commission Expires Feb. 25, 1972
(This area for official notarial seal)

Title Order No. Escrow or Loan No.

File No. 8611, San Pedro High School Addition

MAIL TAX STATEMENTS AS DIRECTED ABOVE

180

RECORDING REQUESTED BY

180

T. I. REC

JAN 9 '69

I, MILO M. WATT, Director of Real Estate, Board of Education of Los Angeles Unified School District of Los Angeles County, hereby certify that the Grant Deed dated October 29, 1968, from NELLIE ACOSTA, an unmarried woman, and CARMEN ACOSTA ENCISO, a married woman, as joint tenants, conveying the north half of Lot 3 in Block 8 of Vista Del Oro to LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY was accepted by the Board of Education of the City of Los Angeles at its meeting held on December 30, 1968, as a portion of the San Pedro High School Site.

Milo M. Watt

Subscribed and sworn to before me this
2nd day of January, 1969
Freeman R. Graves
Notary Public in and for said County
of Los Angeles, State of California
ea

OFFICIAL SEAL
FREEMAN R. GRAVES
NOTARY PUBLIC-CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY

FREEMAN R. GRAVES - Notary Public - Cal.
[illegible]

180

RECORDING REQUESTED BY

283

AND WHEN RECORDED MAIL TO

Name
Street Address
City & State

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

Name
Street Address
City & State

BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX STATEMENTS"

AFFIX [redacted] IN THIS SPACE

DOCUMENTARY TRANSFER TAX $ 36.85
Los Angeles City School Districts
Paul Kenner
SIGNED, Agent.

T. I. REC

APR 4 '69

# Grant Deed

TO 401 C

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, ERNEST N. PAPADAKIS, GEORGE N. PAPADAKIS and ROBERT IVON, as trustees as to an undivided 7/14th interest, ERNEST N. PAPADAKIS, as to 1/14th interest, JOAN IVON, as to 1/14th interest, MAE PERATIS, as to 1/14th interest, HELEN PINKSTON, as to 1/14th interest, BEATRICE MOORE, as to 1/14th interest, GEORGE N. PAPADAKIS, as to 1/14th interest, ERNEST N. PAPADAKIS, as to 1/14th interest, as trustee

hereby GRANTS to Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
County of Los Angeles, State of California:

Lot 25 and the north 2½ feet of Lot 24 in Block 8 of Vista Del Oro Tract, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 37 page 59 of Maps, in the office of the county recorder of said county.

Ernest N. Papadakis
ERNEST N. PAPADAKIS, as Trustee

George N. Papadakis
GEORGE N. PAPADAKIS, as Trustee

Robert Ivon
ROBERT IVON, as Trustees as to an undivided 7/14th interest

Ernest N. Papadakis
ERNEST N. PAPADAKIS, as to 1/14th interest

Joan Ivon
JOAN IVON, as to 1/14th interest

Mae Peratis
MAE PERATIS, as to 1/14th interest

Helen Pinkston
HELEN PINKSTON, as to 1/14th interest

283

Beatrice Moore
BEATRICE MOORE, as to 1/14th interest

George N. Papadakis
GEORGE N. PAPADAKIS, as to 1/14th interest

Ernest N. Papadakis
ERNEST N. PAPADAKIS, as to 1/14th interest, as Trustee

283

RECORDING REQUESTED BY

AND WHEN RECORDED MAIL TO

REAL ESTATE BRANCH- SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

MAIL TAX STATEMENTS TO

BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX STATEMENT"

Affix

T. I. REC APR 4 '69

# Gran

TO 403 C

THIS FORM FURNISHED BY TITL

FOR A VALUABLE CONSIDERATION, receipt of which GEORGE N. PAPADAKIS and ROBERT IVON, as trus ERNEST N. PAPADAKIS, as to 1/14th interest, as to 1/14th interest, HELEN PINKSTON, as to [redacted] interest, GEORGE N. PAP PAPADAKIS, as to 1/14th interest, as trustee

hereby GRANTS to Los Angeles Unified Schoo

the following described real property in the City of County of Los Angeles , State

Lot 25 and the north 2½ feet of Lot 24 in city of Los Angeles, county of Los Angele in book 37 page 59 of Maps, in the office

Subject to:

Taxes for second half of 1968-1969.

Dated February 4, 1969

STATE OF CALIFORNIA
COUNTY OF Los Angeles } ss.

On February 17, 1969 before me, the undersigned, a Notary Public in and for said State, personally appeared Ernest N. Papadakis, George N. Papadakis and Robert Ivon, as trustees as to an undivided 7/14th interest, Ernest N. Papadakis, as to 1/14th interest, Joan Ivon, as to 1/14th interest, Mae Peratis, as to 1/14th interest, Helen Pinkston, as to 1/14th interest, Beatrice Moore, as to 1/14th interest, George N. Papadakis, as to 1/14th interest, Ernest N. Papadakis, as to 1/14th interest, as trustee.

to be the person S whose name are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

Signature Angela A. Fabrizi

Angela A. Fabrizi
Name (Typed or Printed)

OFFICIAL SEAL
ANGELA A. FABRIZI
NOTARY PUBLIC — CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY
My Commission Expires March 7, 1972

(This area for official notarial seal)

Title Order No. Escrow or Loan No.

File No. 8425, San Pedro High School, 3rd Addition

MAIL TAX STATEMENTS AS DIRECTED ABOVE

283

RECORDING REQUESTED BY,

283

AND WHEN RECORDED MAIL TO

Name
Street Address
City & State

REAL ESTATE BRANCH. SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES. CALIFORNIA 90054

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

Name
Street Address
City & State

T. I. REC

APR 4 '69

I, MILO M. WATT, Director of Real Estate, Board of Education of Los Angeles Unified School District of Los Angeles County, hereby certify that the Grant Deed dated February 4, 1969, from Ernest N. Papadakis, George N. Papadakis, and Robert Ivon, as Trustees, as to an undivided 7/14th interest, and Ernest N. Papadakis, Joan Ivon, Mae Peratis, Helen Pinkston, Beatrice Moore, George N. Papadakis, and Ernest N. Papadakis, as Trustee, each as to a 1/14th interest, conveying Lot 25 and the north 2½ feet of Lot 24 in Block 8 of Vista Del Oro Tract to LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY as a portion of the San Pedro High School Site was accepted by the Board of Education of the City of Los Angeles at its meeting held on March 24, 1969.

Milo M. Watt

Subscribed and sworn to before me this
25th day of March, 1969

NOTARY PUBLIC in and for the County of Los Angeles, State of California

OFFICIAL SEAL
LEN A. CORWIN
NOTARY PUBLIC - CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY
My Commission Expires September 22, 1972

283

283

ea

RECORDING REQUESTED BY

AND WHEN RECORDED MAIL TO

REAL ESTATE BRANCH, SCHOOL PLANNING DIVISION
LOS ANGELES CITY BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES, CALIFORNIA 90054

1756

RECORDED IN OFFICIAL RECORDS
OF LOS ANGELES COUNTY, CALIF.
.5 Min. Past 10 A.M. JUN 4 1969
RAY E. LEE, Registrar-Recorder

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

BOARD OF EDUCATION
CITY OF LOS ANGELES

"PUBLIC AGENCY - NO TAX STATEMENT"

AFFIX [redacted] IN THIS SPACE

DOCUMENTARY TRANSFER TAX $ 18.70
Los Angeles City School Districts
Paul Bernal
SIGNED, Agent.

FREE 2 E

# Grant Deed

TO 486 C

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

GRACE TODD

hereby GRANT(S) to

Los Angeles Unified School District of Los Angeles County

the following described real property in the City of Los Angeles
County of Los Angeles, State of California:

The west 40 feet of the east 75 feet of Lots 1 and 2 in block 8 of the Vista Del Oro, in the city of Los Angeles, county of Los Angeles, state of California, as per map recorded in book 37 page 59 of Maps, in the office of the county recorder of said county.

Subject to:

Second half of taxes for 1968-1969.

Dated March 8 1969

Grace Todd
Grace Todd

STATE OF ~~CALIFORNIA~~ PENNSYLVANIA }
COUNTY OF Los Angeles TIOGA } ss.

On March 8, 1969 before me, the undersigned, a Notary Public in and for said State, personally appeared Grace Todd

known to me to be the person whose name is subscribed to the within instrument and acknowledged that she executed the same.

WITNESS my hand and official seal.

Signature Dorothy Mosher

Dorothy Mosher
Name (Typed or Printed)

DOROTHY MOSHER, NOTARY PUBLIC
WELLSBORO BOROUGH, TIOGA COUNTY
MY COMMISSION EXPIRES MAY 2, 1969

(This area for official notarial seal)

Title Order No. Escrow or Loan No.

MAIL TAX STATEMENTS AS DIRECTED ABOVE

File No. 8405, San Pedro High School, Third Addition

JUN 4 1969

1756

JUN 4 1969

STATE OF PENNSYLVANIA }
COUNTY OF TIOGA } SS:

I, EDWARD F. BELLINGER, Clerk of the Court of Quarter Sessions held in and for said County, being a Court of Record, having by law a seal, do hereby certify that Dorothy Mosher, Esq., the officer whose name is subscribed to the certificate of the acknowledgement or proof of the annexed instrument, and before whom the same was made, resides in the said County; that at the time of taking such acknowledgment or proof he was a Notary Public in and for said County duly authorized by the laws of said State to take the same, and also to take the acknowledgment or proof of deeds to be recorded therein. I further certify that I am well acquainted with the handwriting of such officer, and verily believe that the signature to said certificate of acknowledgment of proof is genuine.

I further certify that an impression of the seal of said Dorothy Mosher is not required by law to be filed in this office.

IN TESTIMONY WHEREOF, I have hereunto set my name and affixed my official seal, at Wellsboro, in said County, this 11 day of March, 19 69

Luva Suhr
Deputy Clerk of Court of Quarter Sessions

LUVA SUHR DEPUTY PROTHONOTARY
My Commission Expires First Monday Jan. 1970

1756

JUN 4 1969

I, MILO M. WATT, Director of Real Estate, Los Angeles Unified School District of Los Angeles County, hereby certify that the Grant Deed dated March 8, 1969 from GRACE TODD conveying the west 40 feet of the east 75 feet of Lots 1 and 2 in Block 8 of the Vista Del Oro to LOS ANGELES UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY as a portion of the San Pedro High School Site was accepted by the Board of Education of the City of Los Angeles at its meeting held on March 7, 1969.

Milo M. Watt

Subscribed and sworn to before me this 9th day of March, 1969.

NOTARY PUBLIC in and for the County of Los Angeles, State of California

OFFICIAL SEAL
LEN A. CORWIN
NOTARY PUBLIC - CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY
My Commission Expires September 22, 1972

ea

1756

**LAUSD/ SAN PEDRO HS**
1001 W 15TH ST
SAN PEDRO, CA 90731

Inquiry Number:
June 7, 2016

# EDR Site Report™

EDR® Environmental Data Resources Inc

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# TABLE OF CONTENTS

The EDR-Site Report™ is a comprehensive presentation of government filings on a facility identified in a search of federal, state and local environmental databases. The report is divided into three sections:

**Section 1: Facility Summary . . . . . Page 3**

Summary of facility filings including a review of the following areas: waste management, waste disposal, multi-media issues, and Superfund liability.

**Section 2: Facility Detail Reports . . . . . Page 4**

All available detailed information from databases where sites are identified.

**Section 3: Databases and Update Information. . . . . Page 16**

Name, source, update dates, contact phone number and description of each of the databases for this report.

***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.

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# SECTION 1: FACILITY SUMMARY

| FACILITY<br><br>AREA | FACILITY 1<br>**LAUSD/ SAN PEDRO HS**<br>1001 W 15TH ST<br>SAN PEDRO, CA 90731<br>EDR ID #S113012614 |
|---|---|
| **WASTE MANAGEMENT**<br>Facility generates hazardous waste (RCRA) | NO |
| Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSDF) | NO |
| Facility has received Notices of Violations (RCRA/VIOL) | NO |
| Facility has been subject to RCRA administrative actions (RAATS) | NO |
| Facility has been subject to corrective actions (CORRACTS) | NO |
| Facility handles PCBs (PADS) | NO |
| Facility uses radioactive materials (MLTS) | NO |
| Facility is a FUSRAP Site | NO |
| Facility is a UXO Site | NO |
| Facility is a FUELS Site | NO |
| Facility is an DockHWC/ECHO Site | NO |
| Facility manages registered aboveground storage tanks (AST) | NO |
| Facility manages registered underground storage tanks (UST) | NO |
| Facility has reported leaking underground storage tank incidents (LUST) | NO |
| Facility has reported emergency releases to the soil (ERNS) | NO |
| Facility has reported hazardous material incidents to DOT (HMIRS) | NO |
| **WASTE DISPOSAL**<br>Facility is a Superfund Site (NPL) | NO |
| Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (SEMS) | NO |
| Facility has a reported Superfund Lien on it (LIENS) | NO |
| Facility is listed as a state hazardous waste site (SHWS) | NO |
| Facility has disposed of solid waste on-site (SWF/LF) | NO |
| **MULTIMEDIA**<br>Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS) | NO |
| Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS) | NO |
| Facility manufactures or imports toxic chemicals on the TSCA list (TSCA) | NO |
| Facility has inspections under FIFRA, TSCA or EPCRA (FTTS) | NO |
| Facility is listed in EPA's index system (FINDS) | NO |
| Facility is listed in other database records (OTHER) | **YES - p4** |
| **POTENTIAL SUPERFUND LIABILITY**<br>Facility has a list of potentially responsible parties PRP | NO |
| **TOTAL (YES)** | 1 |

# SECTION 2: FACILITY DETAIL REPORTS

## MULTIMEDIA

### Facility is listed in other database records

### DATABASE: Other Database Records (OTHER)

LAUSD/ SAN PEDRO HS
1001 W 15TH ST
SAN PEDRO, CA 90731
EDR ID #S113012614

HAZNET:

| | |
|---|---|
| envid: | S113012614 |
| Year: | 2014 |
| GEPAID: | CAD982022642 |
| Contact: | PAT SCHAENEN |
| Telephone: | 2132413921 |
| Mailing Name: | Not reported |
| Mailing Address: | 374 S BEAUDRY AVE FL 28 |
| Mailing City,St,Zip: | LOS ANGELES, CA 900170000 |
| Gen County: | Los Angeles |
| TSD EPA ID: | CAD009007626 |
| TSD County: | Los Angeles |
| Waste Category: | Asbestos containing waste |
| Disposal Method: | Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Tons: | 32 |
| Cat Decode: | Asbestos containing waste |
| Method Decode: | Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Facility County: | Los Angeles |

| | |
|---|---|
| envid: | S113012614 |
| Year: | 2012 |
| GEPAID: | CAD982022642 |
| Contact: | SOE AUNG |
| Telephone: | 2137455939 |
| Mailing Name: | Not reported |
| Mailing Address: | 333 S BEAUNDRY AVE 28TH FLR |
| Mailing City,St,Zip: | LOS ANGELES, CA 900170000 |
| Gen County: | Los Angeles |
| TSD EPA ID: | CAD028409019 |
| TSD County: | Los Angeles |
| Waste Category: | Not reported |
| Disposal Method: | Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.0225 |
| Cat Decode: | Not reported |
| Method Decode: | Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Facility County: | Los Angeles |

| | |
|---|---|
| envid: | S113012614 |
| Year: | 2012 |
| GEPAID: | CAD982022642 |
| Contact: | SOE AUNG |
| Telephone: | 2137455939 |
| Mailing Name: | Not reported |
| Mailing Address: | 333 S BEAUNDRY AVE 28TH FLR |
| Mailing City,St,Zip: | LOS ANGELES, CA 900170000 |
| Gen County: | Los Angeles |
| TSD EPA ID: | IND000351387 |
| TSD County: | Not reported |
| Waste Category: | Not reported |
| Disposal Method: | Metals Recovery Including Retoring,Smelting,Chemicals,Ect |
| Tons: | 0.0025 |
| Cat Decode: | Not reported |
| Method Decode: | Metals Recovery Including Retoring,Smelting,Chemicals,Ect |
| Facility County: | Los Angeles |

| | |
|---|---|
| envid: | S113012614 |
| Year: | 2010 |
| GEPAID: | CAD982022642 |
| Contact: | SOE AUNG |
| Telephone: | 2137455939 |
| Mailing Name: | Not reported |
| Mailing Address: | 333 S BEAUNDRY AVE 28TH FLR |
| Mailing City,St,Zip: | LOS ANGELES, CA 900170000 |
| Gen County: | Not reported |
| TSD EPA ID: | AZR000501510 |
| TSD County: | Not reported |

Waste Category: Latex waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.35
Cat Decode: Latex waste
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: S113012614
Year: 2010
GEPAID: CAD982022642
Contact: SOE AUNG
Telephone: 2137455939
Mailing Name: Not reported
Mailing Address: 333 S BEAUNDRY AVE 28TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Laboratory waste chemicals
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.06
Cat Decode: Laboratory waste chemicals
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: S113012614
Year: 2009
GEPAID: CAD982022642
Contact: SOE AUNG / ECM
Telephone: 2132413199
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLOOR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.282
Cat Decode: Off-specification, aged or surplus organics
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: S113012614
Year: 2009
GEPAID: CAD982022642
Contact: SOE AUNG / ECM
Telephone: 2132413199
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLOOR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Laboratory waste chemicals
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0425
Cat Decode: Laboratory waste chemicals
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: S113012614
Year: 2009
GEPAID: CAD982022642
Contact: SOE AUNG / ECM
Telephone: 2132413199
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLOOR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Laboratory waste chemicals
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.0125
Cat Decode: Laboratory waste chemicals
Method Decode: Fuel Blending Prior To Energy Recovery At Another Site

Facility County: Los Angeles

envid: S113012614
Year: 2009
GEPAID: CAD982022642
Contact: SOE AUNG / ECM
Telephone: 2132413199
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLOOR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 5.838
Cat Decode: Unspecified oil-containing waste
Method Decode: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Los Angeles

envid: S113012614
Year: 2009
GEPAID: CAD982022642
Contact: SOE AUNG / ECM
Telephone: 2132413199
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLOOR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: AZC950823111
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Tons: 0.005
Cat Decode: Asbestos containing waste
Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Facility County: Los Angeles

envid: S113012614
Year: 2009
GEPAID: CAD982022642
Contact: SOE AUNG / ECM
Telephone: 2132413199
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLOOR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD009007626
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Tons: 3.2
Cat Decode: Asbestos containing waste
Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Facility County: Los Angeles

envid: S113012614
Year: 2009
GEPAID: CAD982022642
Contact: SOE AUNG / ECM
Telephone: 2132413199
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLOOR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Not reported
Tons: 0.075
Cat Decode: Other organic solids
Method Decode: Not reported
Facility County: Los Angeles

envid: S113012614
Year: 2009
GEPAID: CAD982022642
Contact: SOE AUNG / ECM
Telephone: 2132413199

Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLOOR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.1
Cat Decode: Other organic solids
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: S113012614
Year: 2009
GEPAID: CAD982022642
Contact: SOE AUNG / ECM
Telephone: 2132413199
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLOOR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Laboratory waste chemicals
Disposal Method: Not reported
Tons: 0.004
Cat Decode: Laboratory waste chemicals
Method Decode: Not reported
Facility County: Los Angeles

envid: S113012614
Year: 2009
GEPAID: CAD982022642
Contact: SOE AUNG / ECM
Telephone: 2132413199
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLOOR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.15
Cat Decode: Off-specification, aged or surplus organics
Method Decode: Fuel Blending Prior To Energy Recovery At Another Site
Facility County: Los Angeles

envid: S113012614
Year: 2009
GEPAID: CAD982022642
Contact: SOE AUNG / ECM
Telephone: 2132413199
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLOOR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Not reported
Tons: 0.025
Cat Decode: Other inorganic solid waste
Method Decode: Not reported
Facility County: Los Angeles

envid: S113012614
Year: 2008
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD009007626
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Tons: 1.6
Cat Decode: Asbestos containing waste

Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Facility County: Los Angeles

envid: S113012614
Year: 2007
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: AZC950823111
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Tons: 0.17
Cat Decode: Asbestos containing waste
Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Facility County: Los Angeles

envid: S113012614
Year: 2007
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: AZR000005454
TSD County: Not reported
Waste Category: Polychlorinated biphenyls and material containing PCBs
Disposal Method: Not reported
Tons: 0.2
Cat Decode: Polychlorinated biphenyls and material containing PCBs
Method Decode: Not reported
Facility County: Los Angeles

envid: S113012614
Year: 2007
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.05
Cat Decode: Unspecified oil-containing waste
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: S113012614
Year: 2007
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD009007626
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Tons: 54.4
Cat Decode: Asbestos containing waste
Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Facility County: Los Angeles

envid: S113012614
Year: 2007
GEPAID: CAD982022642

Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.39
Cat Decode: Waste oil and mixed oil
Method Decode: Fuel Blending Prior To Energy Recovery At Another Site
Facility County: Los Angeles

envid: S113012614
Year: 2006
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD009007626
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 33.71
Cat Decode: Asbestos containing waste
Method Decode: Disposal, Land Fill
Facility County: Los Angeles

envid: S113012614
Year: 2006
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD009007626
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 25.28
Cat Decode: Asbestos containing waste
Method Decode: Disposal, Land Fill
Facility County: Los Angeles

envid: S113012614
Year: 2006
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD009007626
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 16.85
Cat Decode: Asbestos containing waste
Method Decode: Disposal, Land Fill
Facility County: Los Angeles

envid: S113012614
Year: 2006
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD009007626
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 14.32
Cat Decode: Asbestos containing waste
Method Decode: Disposal, Land Fill

Facility County: Los Angeles

envid: S113012614
Year: 2006
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD009007626
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 12.64
Cat Decode: Asbestos containing waste
Method Decode: Disposal, Land Fill
Facility County: Los Angeles

envid: S113012614
Year: 2006
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD009007626
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 29.49
Cat Decode: Asbestos containing waste
Method Decode: Disposal, Land Fill
Facility County: Los Angeles

envid: S113012614
Year: 2006
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD009007626
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 32.02
Cat Decode: Asbestos containing waste
Method Decode: Disposal, Land Fill
Facility County: Los Angeles

envid: S113012614
Year: 2006
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD009007626
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 58.99
Cat Decode: Asbestos containing waste
Method Decode: Disposal, Land Fill
Facility County: Los Angeles

envid: S113012614
Year: 2006
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD980884183
TSD County: Not reported

Waste Category: Waste oil and mixed oil
Disposal Method: Transfer Station
Tons: 0.2
Cat Decode: Waste oil and mixed oil
Method Decode: Transfer Station
Facility County: Los Angeles

envid: S113012614
Year: 2006
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD009007626
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 9.27
Cat Decode: Asbestos containing waste
Method Decode: Disposal, Land Fill
Facility County: Los Angeles

envid: S113012614
Year: 2004
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Transfer Station
Tons: 0.33
Cat Decode: Waste oil and mixed oil
Method Decode: Transfer Station
Facility County: Los Angeles

envid: S113012614
Year: 2003
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: NVT330010000
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Not reported
Tons: 0.05
Cat Decode: Other inorganic solid waste
Method Decode: Not reported
Facility County: Los Angeles

envid: S113012614
Year: 2003
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Treatment, Tank
Tons: 0.41
Cat Decode: Waste oil and mixed oil
Method Decode: Treatment, Tank
Facility County: Los Angeles

envid: S113012614
Year: 2003
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported

Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Laboratory waste chemicals
Disposal Method: Transfer Station
Tons: 0.06
Cat Decode: Laboratory waste chemicals
Method Decode: Transfer Station
Facility County: Los Angeles

envid: S113012614
Year: 2002
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: AZC950823111
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Not reported
Tons: 2.78
Cat Decode: Asbestos containing waste
Method Decode: Not reported
Facility County: Los Angeles

envid: S113012614
Year: 2002
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Laboratory waste chemicals
Disposal Method: Transfer Station
Tons: 0.3
Cat Decode: Laboratory waste chemicals
Method Decode: Transfer Station
Facility County: Los Angeles

envid: S113012614
Year: 2002
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAT080033681
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Tons: 0.12
Cat Decode: Waste oil and mixed oil
Method Decode: Recycler
Facility County: Los Angeles

envid: S113012614
Year: 2001
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD008364432
TSD County: Not reported
Waste Category: Not reported
Disposal Method: Recycler
Tons: 0.25
Cat Decode: Not reported
Method Decode: Recycler
Facility County: Los Angeles

envid: S113012614

# SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Year: 2001
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAT000646117
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Disposal, Other
Tons: 25.28
Cat Decode: Other inorganic solid waste
Method Decode: Disposal, Other
Facility County: Los Angeles

envid: S113012614
Year: 2001
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD008364432
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Tons: 0.41
Cat Decode: Waste oil and mixed oil
Method Decode: Recycler
Facility County: Los Angeles

envid: S113012614
Year: 2000
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: NVT330010000
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Disposal, Other
Tons: 67.42
Cat Decode: Other organic solids
Method Decode: Disposal, Other
Facility County: Los Angeles

envid: S113012614
Year: 2000
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: AZC950823111
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Not reported
Tons: 8.42
Cat Decode: Asbestos containing waste
Method Decode: Not reported
Facility County: Los Angeles

envid: S113012614
Year: 2000
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: NVT330010000
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Not reported
Tons: 67.42

Cat Decode: Other organic solids
Method Decode: Not reported
Facility County: Los Angeles

envid: S113012614
Year: 2000
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAT000646117
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Disposal, Other
Tons: 25.28
Cat Decode: Other inorganic solid waste
Method Decode: Disposal, Other
Facility County: Los Angeles

envid: S113012614
Year: 2000
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAT080033681
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Disposal, Land Fill
Tons: 0.33
Cat Decode: Other organic solids
Method Decode: Disposal, Land Fill
Facility County: Los Angeles

envid: S113012614
Year: 2000
GEPAID: CAD982022642
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: AZR000005454
TSD County: Not reported
Waste Category: Polychlorinated biphenyls and material containing PCBs
Disposal Method: Recycler
Tons: 2.83
Cat Decode: Polychlorinated biphenyls and material containing PCBs
Method Decode: Recycler
Facility County: Los Angeles

envid: S113012614
Year: 1999
GEPAID: CAD982022642
Contact: LOS ANGELES USD
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 1449 S SAN PEDRO ST
Mailing City,St,Zip: LOS ANGELES, CA 900153119
Gen County: Not reported
TSD EPA ID: AZC950823111
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Not reported
Tons: 391.9020
Cat Decode: Asbestos containing waste
Method Decode: Not reported
Facility County: Los Angeles

envid: S113012614
Year: 1999
GEPAID: CAD982022642
Contact: LOS ANGELES USD
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 1449 S SAN PEDRO ST
Mailing City,St,Zip: LOS ANGELES, CA 900153119
Gen County: Not reported

TSD EPA ID: CAT080033681
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Disposal, Land Fill
Tons: .0250
Cat Decode: Other organic solids
Method Decode: Disposal, Land Fill
Facility County: Los Angeles

envid: S113012614
Year: 1995
GEPAID: CAD982022642
Contact: LOS ANGELES USD
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 1449 S SAN PEDRO ST
Mailing City,St,Zip: LOS ANGELES, CA 900153119
Gen County: Not reported
TSD EPA ID: CAD050806850
TSD County: Not reported
Waste Category: Not reported
Disposal Method: Transfer Station
Tons: .0000
Cat Decode: Not reported
Method Decode: Transfer Station
Facility County: Los Angeles

envid: S113012614
Year: 1995
GEPAID: CAD982022642
Contact: LOS ANGELES USD
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 1449 S SAN PEDRO ST
Mailing City,St,Zip: LOS ANGELES, CA 900153119
Gen County: Not reported
TSD EPA ID: CAD050806850
TSD County: Not reported
Waste Category: Unspecified aqueous solution
Disposal Method: Not reported
Tons: .4850
Cat Decode: Unspecified aqueous solution
Method Decode: Not reported
Facility County: Los Angeles

envid: S113012614
Year: 1995
GEPAID: CAD982022642
Contact: LOS ANGELES USD
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 1449 S SAN PEDRO ST
Mailing City,St,Zip: LOS ANGELES, CA 900153119
Gen County: Not reported
TSD EPA ID: CAD050806850
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Transfer Station
Tons: .1500
Cat Decode: Other inorganic solid waste
Method Decode: Transfer Station
Facility County: Los Angeles

envid: S113012614
Year: 1993
GEPAID: CAD982022642
Contact: LOS ANGELES USD
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 1449 S SAN PEDRO ST
Mailing City,St,Zip: LOS ANGELES, CA 900153119
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Tons: 0.41699999999
Cat Decode: Waste oil and mixed oil
Method Decode: Recycler
Facility County: Los Angeles

# SECTION 3: DATABASES AND UPDATE DATES

To maintain currency of the following federal, state and local databases, EDR contacts the appropriate government agency on a monthly or quarterly basis as required.

**Elapsed ASTM days:** Provides confirmation that this report meets or exceeds the 90-day updating requirement of the ASTM standard.

## DATABASES FOUND IN THIS REPORT

**CA HAZNET: Facility and Manifest Data**
Source: California Environmental Protection Agency
Telephone: 916-255-1136
Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2014
Database Release Frequency: Annually

Date of Last EDR Contact: 04/15/2016
Date of Next Scheduled Update: 07/25/2016

**San Pedro High School**
1001 W 15th Street
San Pedro, CA 90731

Inquiry Number: 4583327.6
April 05, 2016

# The EDR Property Tax Map Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

# EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.

**Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

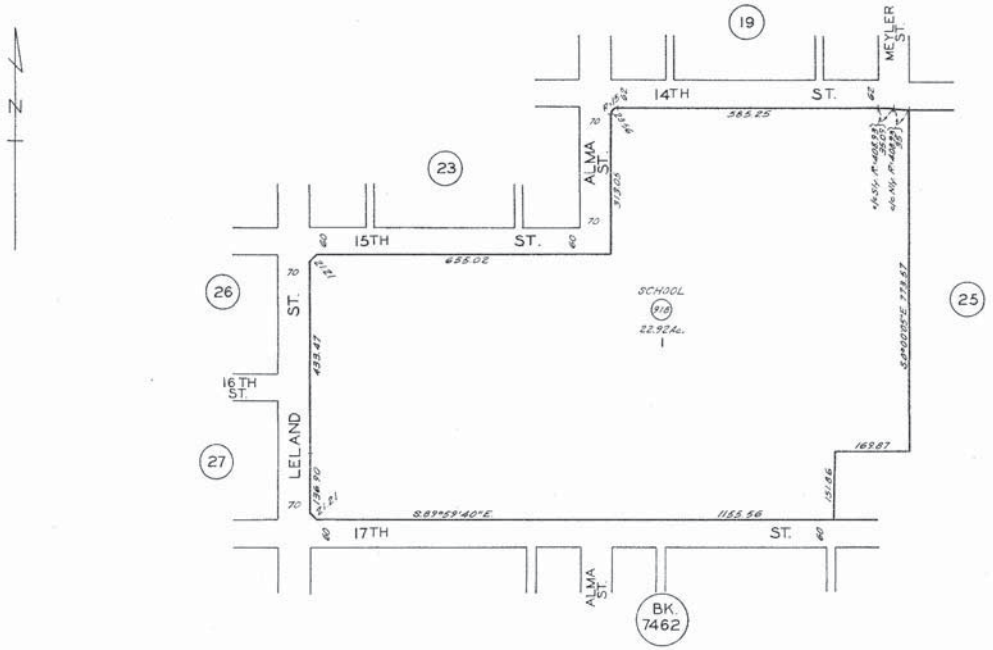
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ASSESSOR'S
COUNTY OF LOS ANGELES, CALIF.

CITY LA DBS
DEPARTMENT OF BUILDING AND SAFETY

# Research Request Form

**DATE:** April 25, 2016 **Q-MATIC TICKET #** (office use only) _____

**NAME:** Joan Greenwood **COMPANY NAME:** Clark Seif Clark, Inc.

**TELEPHONE #:** 562-435-8080 **FAX #:** 562-590-8795

**REFERRED BY:** Dane Robinson, LAUSD-OEHS **PHONE #:** 213-241-4122

**FAXING OPTIONS:** Records Counter, LADBS Fax to one of the numbers below (check one):

☒ (213) 482-6862
Metro Office
201 N. Figueroa St., 1st. Flr,Rm 110
Los Angeles, CA 90012

☐ (818) 374-5013
Van Nuys Office
6262 Van Nuys Bl.
Van Nuys, CA 91401

**PROPERTY ADDRESS(ES):** Please research the following addresses **(IN PERSON: One Address submitted at a time) (FAXING: Up to 3 addresses per request)**

1001 West 15th Street, San Pedro, CA 90731

**Use of Existing Building:** San Pedro High School Campus

**COMMENTS:** Reason for Records Request:

Performing a Phase I Environmental Site Assessment and need to establish earliest date of development and any prior land uses.

## Information Requested:

Copies of Documents range from **$0.10 to $1.50** per page (excluding blueprint copies)
Select from the following by checking the box next to it - for further clarification of request, use comments box

| | | | |
|---|---|---|---|
| ☒ BUILDING PERMITS<br>☒ PLOT PLAN | ☒ CERTIFICATES OF OCCUPANCY | ☒ GRADING DOCUMENTS | **For Office Use Only:**<br>_____PCIS |
| ☐ MECHANICAL PERMITS<br>☐ ELECTRICAL PERMITS<br>1985 - 1990 and 1997 - Present | ☐ VIOLATIONS | ☐ MODIFICATIONS/BOARD FILES | _____IDIS<br>_____Microfilm |
| AFFIDAVITS/Z.I.NO._____ | | | _____Manual Search |

☐ BLUEPRINTS ($8.00 Service Fee, plus a SD Surcharge Fee (Section 98.0416 of the LAMC) and $1.00 per page.

No plans available for Single Family Dwellings and Commercial buildings 3 stories and under, prior to 1978.

To obtain copies of blueprints on file, all of the following requirements must be submitted:
1. A release letter from the current owner.
2. A copy of the current owner's Grant Deed.
3. A release letter from the architect and engineer whose stamp is on the plans.
   Letters must be on Letterhead and have engineer/architect's stamp and signature.

All Applications Must be Filled Out by Applicant

Bldg. Form 1

PLANS AND SPECIFICATIONS and other data must also be filed

# 1

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
BUILDING DIVISION

## Application for the Erection of Buildings

CLASS "A"—"B"—"C" REINF. CONC.

SAN PEDRO DISTRICT

To the Board of Building and Safety Commissioners of the City of Los Angeles:

Application is hereby made to the Board of Building and Safety Commissioners of the City of Los Angeles, through the office of the superintendent of Building, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

First: That the permit does not grant any right or privilege to erect any building or other structure therein described, or any portion thereof, upon any street, alley, or other public place or portion thereof.

Second: That the permit does not grant any right or privilege to use any building or other structure therein described, or any portion thereof, for any purpose that is, or may hereafter be prohibited by ordinance of the City of Los Angeles.

Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession to, the property described in such permit.

TAKE TO Room No. 2 (2ND FLOOR) CITY CLERK PLEASE VERIFY

Lot No. ____ Block ____ (Description of Property)

San Pedro High School
(New Site)
(Administration Bldg.)

District No. ____ M. B. Page ____ F. B. Page ____

O. K. City Clerk By ____ Deputy

TAKE TO ROOM No. (MAIN ST. FLOOR) ENGINEER PLEASE VERIFY

No. 1020 - 15th Street (Location of Job) Street

Between Meyler Street and Leland Street - San Pedro

O. K. City Engineer By ____ Deputy

(USE INK OR INDELIBLE PENCIL)

1. Purpose of Building Public School No. of Rooms 34 No. of Families -
2. Owner's name Los Angeles City High School District Phone PR. 1121 - Sta. 166
3. Owner's address 7th floor - Chamber of Commerce Building
4. Architect's name Gordon B. Kaufman (Not to be filled in unless with name of Certificated Architect or Licensed Engineer under State Act) STATE LICENSE NO. C-2443 Phone
5. Contractor's name None STATE LICENSE NO. Phone
6. Contractor's address OK
7. TOTAL VALUATION OF BUILDING (Including all Material, Labor, Finishing, Equipment and Appliances in Completed Building.) $ 185,000.00
8. Any other building or permit for a building on lot at present? No How used? -
9. Size of proposed building 83'-9" x 500' Size of lot 448.56' x 1340.36' feet
10. Number of stories in height 3 Height to highest point 52'-0"
11. Material of foundation Concrete Character of soil Marine deposits, solidified clay.
12. Material of exterior walls Concrete
13. Material of interior construction Concrete - Metal lath and Plaster
14. Material of floors Concrete
15. Material of roof Concrete - Composition roof over
16. Will all lathing and plastering comply with Ordinance? Yes
17. What zone is property in?

I have carefully examined and read the above application and know the same is true and correct, and hereby certify and agree, if a permit is issued, that all of the provisions of the Building Ordinances will be complied with, whether herein specified or not; also certify that plans and specifications herewith filed conform to all of the provisions of the Building Ordinances and State Laws.

OVER

(Sign Here) BOARD OF EDUCATION
(Owner or Authorized Agent)

FOR DEPARTMENT USE ONLY

| PERMIT No. | Plans and Specifications checked and found to conform to Ordinances, State Laws, Etc. | Application checked and found | Stamp here when permit is issued. |
|---|---|---|---|
| 13727 | R. J. Williams, Asst. Chief Engineer | B. M. [illegible], Clerk | AUG -7 1935 |

PLANS 283 sh

## FOR DEPARTMENT USE ONLY

| | |
|---|---|
| APPLICATION | O.K. |
| CONSTRUCTION | O.K. |
| ZONING | O.K. OP |
| SET-BACK LINE | O.K. OP |
| ORD. 33761 (N. S.) | O.K. OP |
| FIRE DISTRICT | O.K. |
| | |

REMARKS

PLAN CHECKING — Permit OK by Pierce 5/2/25 Pierce

RECEIPT NO. 2891

VALUATION $ 300000.00 (Bldg)

FEE PAID $ 150.00

5700 Blk. Cement

240 Tons Reinf. Steel

All Applications Must be Filled Out by Applicant

Bldg. Form 1

PLANS AND SPECIFICATIONS and other data must also be filed

# 1

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
BUILDING DIVISION

## Application for the Erection of Buildings

CLASS "A"—"B"—"C" STEEL FRAME PLASTER

To the Board of Building and Safety Commissioners of the City of Los Angeles:

Application is hereby made to the Board of Building and Safety Commissioners of the City of Los Angeles, through the office of the Superintendent of Building, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

First: That the permit does not grant any right or privilege to erect any building or other structure therein described, or any portion thereof, upon any street, alley, or other public place or portion thereof.

Second: That the permit does not grant any right or privilege to use any building or other structure therein described, or any portion thereof, for any purpose that is, or may hereafter be prohibited by ordinance of the City of Los Angeles.

Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

TAKE TO Room No. 2 (2ND FLOOR) CITY CLERK PLEASE VERIFY

TAKE TO ROOM No. (MAIN ST.) FLOOR) ENGINEER PLEASE VERIFY

Lot No. ..... Block .....
(Description of Property)

San Pedro High School
(New Site)
(Industrial Arts Bldg.)

District No. ..... M. B. Page ..... F. B. Page .....

No. 1010 - 15th Street
(Location of Job)
1091

Between Meyler Street and Leland Street - San Pedro

O.K. City Clerk By ..... Deputy

O.K. Bldg. Engineer By ..... Deputy

SAN PEDRO DISTRICT

(USE INK OR INDELIBLE PENCIL)

1. Purpose of Building Public School No. of Rooms 12 No. of Families -
2. Owner's name Los Angeles City High School District Phone Pr.1191 - Sta.166
3. Owner's address 7th floor - Chamber of Commerce Building
4. Architect's name Gordon B. Kaufman (Not to be filled in unless with name of Certificated Architect or Licensed Engineer under State Act) LICENSE NO. C-7421 Phone
5. Contractor's name None STATE LICENSE NO. Phone
6. Contractor's address OK
7. TOTAL VALUATION OF BUILDING (Including all Material, Labor, Finishing, Equipment and Appliances in Completed Building.) $45,000.00
8. Any other building or permit for a building on lot at present? No How used? -
9. Size of proposed building 77' 4" x 25' 0" Size of lot 448.56' x 1340.36' feet
10. Number of stories in height 1 Height to highest point 22' 0"
11. Material of foundation Concrete Character of soil Marine deposits, soildiffed clay
12. Material of exterior walls Concrete - Steel Studs - Metal Lath and Plaster
13. Material of interior construction Steel Studs, Metal Lath and Plaster
14. Material of floors Concrete on ground
15. Material of roof Composition over wood. Steel roof construction
16. Will all lathing and plastering comply with Ordinance? Yes
17. What zone is property in? [illegible]

I have carefully examined and read the above application and know the same is true and correct, and hereby certify and agree, if a permit is issued, that all of the provisions of the Building Ordinances will be complied with, whether herein specified or not; also certify that plans and specifications herewith filed conform to all of the provisions of the Building Ordinances and State Laws.

OVER

(Sign Here) BOARD OF EDUCATION
(Owner or Authorized Agent)

FOR DEPARTMENT USE ONLY

| PERMIT No. | Plans and Specifications checked and found to conform to Ordinance, State Laws, etc. | Application checked and found correct | Stamp here when permit is issued. |
|---|---|---|---|
| 13728 | R. E. Williamson By ..... Asst. Engineer | By ..... Clerk | AUG -7 1935 |

PLANS

113.00

## FOR DEPARTMENT USE ONLY

| | |
|---|---|
| APPLICATION | O.K. |
| CONSTRUCTION | O.K. |
| ZONING | O.K. |
| SET-BACK LINE | O.K. |
| ORD. 33761 (N.S.) | O.K. |
| FIRE DISTRICT | O.K. |
| | |

REMARKS

~~PLAN CHECKING~~ 5/7/85 Permit OK by Trainee

~~RECEIPT No.~~ 7831

VALUATION $ 300000 (approx)

FEE PAID $ 150.00

1500 Bldg. Concrete

62 Tons Reinf. Steel

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

Information Management
Public Records Unit

Direct Dial: (909) 396-3700
**FAX: (909) 396-3330**

# PUBLIC RECORDS REQUEST FORM

*PRU Office Use Only*
**CONTROL NUMBER**

**ATTENTION REQUESTOR:** To expedite your request for District records, please fill out this form completely, and identify specifically the type of records you are requesting. Please limit your request to one facility or one site address for each request form filed, and three requested items per form. Additional forms or pages can be used if requesting information for more than one facility or for records not identified on this form. Requests should reasonably describe identifiable records prepared, owned, used, or retained by the District. Public Records Unit staff is available to assist you in identifying those records in the District's possession. The District is not required by law to create a new record or list from an existing record.

## REQUESTOR INFORMATION

| | | |
|---|---|---|
| NAME: Natalia Guerra | | DATE: 04/04/16 |
| COMPANY: Clark Seif Clark, Inc. | | |
| MAILING ADDRESS: 21732 Devonshire Street, Suite B | | |
| CITY: Chatsworth | STATE: CA | ZIP CODE: 91324 |
| PHONE NUMBER: (818) 727-2553 | FAX NUMBER: (818) 727-2556 | |
| **EMAIL ADDRESS: nguerra@csceng.com** | | |

## REQUESTED RECORDS (*3 items per form*)

| | | |
|---|---|---|
| ☐ Applications (APPLS) | ☐ Complaints | ☐ Asbestos Notifications/Records |
| ■ Permits to Operate (P/O) | ■ Site Inspection Reports (I/R) | ☐ Facility Potential to Emit (PTE) |
| ☐ Equipment List Report (EQL) | ☐ Emissions Summary | ☐ Facility Positive Balance (NSR) |
| ■ Notices of Violation (NOV) | ☐ Source Test Reports (S/T RPTS) | ☐ Toxic-Health Risk Assessment (HRA) |
| ☐ Notices to Comply (N/C) | ☐ Air Monitoring Data | ☐ Other (describe below or on additional pages): |

TIME PERIOD OF DOCUMENTS REQUESTED From: To:

## REQUESTED FACILITY INFORMATION (If Applicable)

| | | |
|---|---|---|
| FACILITY NAME: San Pedro High School | | |
| FACILITY ADDRESS: 1001 W 15th Street | | |
| CITY: San Pedro | STATE: CA | ZIP CODE: 90731 |
| FACILITY I.D. NO. (if known): | APPL. AND/OR PERMIT NO. (if known): | |

***Direct cost of duplication**: $.15 per page for paper copies (first 10 pages free) and $5.00 per copied audio tape. No charge for copied Diskettes or CDs. Transfer of gathered electronic records onto CD or Diskette typically costs $10.00 each, but costs will vary (see Instructions for Requesting Records).*

■ I wish to inspect the requested records, where applicable, or receive the requested records electronically at no charge. I do not want copies produced at this time.
☐ I request that the SCAQMD contact me prior to copying the requested records if the cost exceeds $20.00.
☐ I would like copies of the requested records and I hereby agree to reimburse the SCAQMD for the direct cost of duplication in accordance with Gov. Code Sec. 6253(b).

Natalia Guerra
Signature of Requestor

Note: After a preliminary estimate, advance payment may be required.

(Rev. 06/17/08-lkoenig)

Facility
ID 4395

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

# PERMIT to OPERATE

9150 FLAIR DRIVE, EL MONTE, CALIFORNIA 91731

M 11080

Operation under this permit must be conducted in compliance with all information included with the initial application and the initial permit conditions. The equipment must be properly maintained and kept in good operating condition at all times. In accordance with Rule 206, this Permit to Operate or copy must be posted on or within 8 meters of equipment.

EXPIRES 1/1/83

LEGAL OWNER OR OPERATOR: LOS ANGELES UNIFIED SCHOOL DISTRICT

Appl. No. G-3274

EQUIPMENT LOCATED AT: 1001 15TH STREET
SAN PEDRO, CALIFORNIA

SUPERSEDES PERMIT #

EQUIPMENT DESCRIPTION AND CONDITIONS: SPRAY BOOTH, BINKS, FLOOR TYPE, 6'-4" W. x 7'-3" H. x 6'-2" D., WITH ONE 1 H.P. EXHAUST FAN.

- CONDITIONS -

1. ORGANIC SOLVENTS USED IN THIS EQUIPMENT MUST BE CLEARLY LABELED AS NON-PHOTOCHEMICALLY REACTIVE BY THE SUPPLIER OR, FOR BULK SHIPMENTS, SHOWN TO BE NON-PHOTOCHEMICALLY REACTIVE ON BILLS OF LADING OR INVOICES.
2. THE TOTAL QUANTITY OF COATINGS AND SOLVENTS USED IN THIS EQUIPMENT MUST NOT EXCEED 2 GALLONS IN ANY ONE DAY.

FILE COPY

This initial permit must be renewed by NOT APPLICABLE unless the equipment is moved, or changes ownership. If billing for annual renewal fee (Rule 301.f) not received by expiration date, contact office above.

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the Rules of the Air Quality Management District. This permit cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other government agencies.

EXECUTIVE OFFICER

BY Helen Thompson
Permit Section Supv.

DATE 1/25/80

GOVERNMENT APPLICATION - NO FEE REQUIRED
VOID UNLESS VALIDATED

707225M - 6/79

# Office of the State Fire Marshal

Pipeline Safety Division
*P.O. Box 944246*
*Sacramento, CA 94244-2460*

Request ID: 04292016SFM001

TO: CLARK SEIF CLARK, INC.
JOAN GREENWOOD
110 PINE AVENUE, STE. 925
LONG BEACH, CA 90802

Phone: 562 435 8080
Fax: 562 590 8795

FROM: Lisa Dowdy

Phone: (916) 445-8477
Fax: (916) 445-8526

**PIPELINE LOCATION REQUEST FOR:**

**1001 W 15TH STREET**
**SAN PEDRO, CA 90731**

THERE ARE NO PIPELINES JURISDICTIONAL TO THE STATE FIRE MARSHAL IN THE AREA FOR WHICH YOU HAVE INQUIRED.

- FOR NATURAL GAS PIPELINES PLEASE CONTACT YOUR LOCAL GAS COMPANY

- FOR OTHER TYPES OF PIPELINE PLEASE CONTACT THE DIVISION OF OIL AND GAS AT (714) 816-6847

- FOR PUBLIC UTILITIES PLEASE CONTACT THE PUBLIC UTILITIES COMMISSION AT (415) 703-2782

**Disclaimer:** The pipeline information and data represented in this correspondence varies in accuracy, scale, origin and completeness and may be changed at any time without notice. While the Office of the State Fire Marshal, Pipeline Safety Division (OSFM/PSD) makes every effort to provide accurate information, OSFM/PSD makes no warranties as to the suitability of this product for any particular purpose. Any use of this information is at the user's own risk.

For further information or suggestions regarding the data on this site, please contact the Office of the State Fire Marshal, Pipeline Safety Division at P.O. Box 944246, Sacramento, CA 94244 or call (916) 445-8477.

Department of Toxic Substances Control

Matthew Rodriquez
Secretary for
Environmental Protection

Barbara A. Lee, Director
9211 Oakdale Avenue
Chatsworth, California 91311

Edmund G. Brown Jr
Governor

April 7, 2016

Ms. Natalia Guerra, EIT
Jr. Environmental Engineer
Clark Seif Clark, Inc.
21732 Devonshire Boulevard, Suite B
Chatsworth, CA 91313

1001 W. 15th Street, San Pedro, CA 90731
PR3-040616-08

Dear Ms. Guerra:

We have received your Public Records Act Request for records from the Department of Toxic Substances Control.

After a thorough review of our files we have found that no such records exist at this office pertaining to the site/facility referenced above.

We would like to inform you about EnviroStor, a database that provides information and documents on over 5,000 DTSC cleanup sites. EnviroStor can be accessed at: http://www.envirostor.dtsc.ca.gov/public. Also, a computer is available in the Central Files of each DTSC Regional Office for use by community members to view EnviroStor.

If you have any questions, would like further information regarding your request or would like an appointment to visit Chatsworth Central Files, please contact me at (818) 717-6522.

Sincerely,

Glenn Castillo/bh
Regional Records Coordinator

Printed on Recycled Paper

Department of Toxic Substances Control

Barbara A. Lee, Director
5796 Corporate Avenue
Cypress, California 90630

Matthew Rodriquez
Secretary for
Environmental Protection

Edmund G. Brown Jr.
Governor

April 8, 2016

Natalia Guerra
CLARK SEIF CLARK, INC
21732 Devonshire Street, #B
Chatsworth, CA 91313

1001 W 15TH STREET, SAN PEDRO, CA
PR4-040716-1

Dear Ms. Guerra:

The Department of Toxic Substances Control has received your letter to review records under the Public Records Act.

After a thorough review of our files we have found that no such records exist at this office pertaining to the site/facility referenced above.

We would like to inform you about EnviroStor, a database that provides information and documents on over 5,000 DTSC cleanup sites. EnviroStor can be accesses at: http://www.envirostor.dtsc.ca.gov/public. Also, a computer is available at each DTSC Regional File Room Office for use by community members to view EnviroStor.

If you have any questions or would like further information regarding your request, please contact me at (714) 484-5337.

Sincerely,

Julie Johnson
Julie Johnson
Regional Records Coordinator

Printed on Recycled Paper

**Joan Greenwood**

**From:** Natalia Guerra
**Sent:** Friday, April 15, 2016 9:24 AM
**To:** Joan Greenwood
**Subject:** FW: Public Records Request / Tracking 2016040507
**Attachments:** PRR Form LA Region Water Quality Control Board.pdf

Please See Below.

Natalia Guerra
Jr. Environmental Engineer
Clark Seif Clark, Inc.

---

**From:** Quidilla, Clarita@Waterboards [mailto:Clarita.Quidilla@waterboards.ca.gov] **On Behalf Of** WB-RB4-PublicRecords
**Sent:** Thursday, April 14, 2016 10:01 AM
**To:** Natalia Guerra
**Subject:** Public Records Request / Tracking 2016040507

********* Please submit future file review requests to the LARWQCB via e-mail to RB4-publicrecords@waterboards.ca.gov.*********

Thank you for your request to review Regional Board records concerning the property on:

- 1001 W. 15th Street, San Pedro

The Regional Board has reviewed its files and has concluded that it does not have any records that are responsive to your request.

Thank you,

Clarita Quidilla
Los Angeles Regional Water Quality Control Board

---

**From:** Natalia Guerra [mailto:NGuerra@csceng.com]
**Sent:** Tuesday, April 05, 2016 9:15 AM
**To:** WB-RB4-PublicRecords
**Cc:** Joan Greenwood; Jeff Bannon
**Subject:** Public Records Request - 1001 W 15th Street, San Pedro CA 90731

Attn: Public Records Custodian
Los Angeles Regional Office
California Regional Water Quality Control Board

**RE: Public Records Request**
**1001 W 15th Street**
**San Pedro, CA 90731**

Dear Public Records Custodian:

I hereby request an opportunity to review any files that are available under the Public Records Request Act for the address range indicated above. My email address is nguerra@csceng.com. Please see the attached Records Review Request From.

Thank you for your assistance in this matter.

Very truly yours,

Clark Seif Clark, Inc.

Natalia Guerra

Natalia Guerra
Jr. Environmental Engineer

Clark Seif Clark, Inc. (CSC)
Physical: 21732 Devonshire Street, Suite B – Chatsworth, CA 91311
Mailing: P.O. Box 4299 Chatsworth, CA 91313
tel 818-727-2553 cel 818-439-5706 fax 818-727-2556
e-mail nguerra@csceng.com
www.csceng.com

CLARK SEIF CLARK, INC.
HEALTH & SAFETY + ENGINEERING + ENVIRONMENTAL

LOS ANGELES ~ LONG BEACH ~ SAN FRANCISCO ~ IRVINE ~ SAN DIEGO ~ PHOENIX ~ KENTUCKY

**---PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL---**

NOTICE: This electronic mail transmission is intended only for the addressee. It contains information that may be privileged, confidential, and exempt from disclosure under applicable law. Dissemination, distribution, or copying of this by anyone other than the addressee or the addressee's agent is strictly prohibited. If this electronic mail transmission is received in error, please notify the sender immediately by a "reply to sender only" message and destroy all electronic and hard copies of this communication and all attachments thereto. Thank you.

# LOS ANGELES FIRE DEPARTMENT
## UNDERGROUND TANKS REQUEST FOR FIRE PREVENTION RECORDS

ADDRESS: 200 NORTH MAIN ST., 17TH FLR, RM. 1700

NEW OFFICE# - 213-978-3700 NEW EMAIL lafd.usttestnotify@lacity.org

**PLEASE GIVE US 7 TO 10 BUSINESS DAYS TO HONOR YOUR REQUEST.**

**ONE ADDRESS ONLY - PER SHEET**

COMPLETE THIS BOX. ONE FOR EACH PROPERTY CONCERNED

PHONE NO: ( 818 ) 727-2553 EMAIL: nguerra@csceng.com

NAME OF REQUESTER (PLEASE PRINT): Natalia Guerra

REPRESENTING (COMPANY NAME): Clark Seif Clark, Inc.

SIGNATURE: [signature] DATE: 04 / 05 / 16

DRIVER LIC NO: B5448113 EXP: 07/27/2016

ADDRESS FOR WHICH RECORDS ARE REQUESTED: 1001 W 15th Street

San Pedro, CA 90731

REASON FOR REQUEST: Phase 1 Environmental Site Assessment

**NO COPY SERVICES ALLOWED**

**FOR OFFICE USE ONLY:**

☐ REVIEW ONLY (NO COPIES)

☐ REQUEST COPIES

NUMBER OF PAGES: _____

X .10 ¢

= _____

+ $11.00

TOTAL FEE AMOUNT: _____

BILLING & ACCOUNTS RECEIVABLE
16TH FL, Rm. 1620, 200 N. MAIN (REV CODE #3887)

NO FILE FOUND

# Los Angeles City Fire Department

Telephone (213) 978-3691
Email: LAFDrfi@lacity.org
200 N. Main St., 17th Fl., Los Angeles, CA 90012

## Request for Information
## Hazardous Materials Records

***COMPLETE ONE FORM FOR EACH ADDRESS**

Request Date: 04/05/16

Requester's Name: Natalia Guerra  Email: nguerra@csceng.com

Company/ Agency: Clark Seif Clark, Inc.  PH.#: (818) 727-2553

Address: 21732 Devonshire Street  Unit/Ste.: B

City: Chatsworth  State: CA  Zip: 91313

Information is requested for

☐ Active Facilities Only

Check all that apply:  ☒ Inventory Summary  ☒ Review File

Business Name: San Pedro High School

Storage Address: 1001 W 15th Street  Unit/Ste.:

City: San Pedro  Zip: 90731

Reason for Request: Phase I Environmental Site Assessment

**FOR OFFICE USE ONLY**

☐ **NO INFORMATION ON FILE**
☐ **HARD FILE DESTROYED**
☒ **INFORMATION AVAILABLE**

Facility I.D. No.: FA0002241- FS#48

Request No.:

Processed Date: 04/07/2016

APPT. TO REVIEW FILE:

Processor Signature: Angenee' R  Digitally signed by Angenee' R DN: cn=Angenee' R, o, ou, email=angenee.reypadas@lacity.org, c=US Date: 2016.04.07 14:48:31 -07'00'

**Allow 10 working days for processing:**

Fee Schedule:

*Inventory Summary** 1  x $11.00

Request Review File Copies:

Initial Fee*  1  $ 1.10

# of pgs. 85 x $0.10 = $8.50

*Per Facility ID

**TOTAL:** $20.60

FIRE PREVENTION BUREAU TECHNICAL SECTION
200 NORTH MAIN STREET, RM 1780
LOS ANGELES, CA 90012

LOS ANGELES FIRE DEPARTMENT
Los Angeles Certified Unified Program Agency
(213) 978-3680

# Los Angeles Fire Department
# Data Entry Instruction Form (DEIF)

FOR INTERNAL USE ONLY

| | | | |
|---|---|---|---|
| Date: | 3/28/2012 | New Business: | [ ] |
| Default Inspector: | STEVENS, GREGORY | Fire Station/Census: | 048 |
| Facility ID; | FA0002241 | Insp District: | 423 |
| Facility Name: | **LAUSD - SAN PEDRO HIGH SCHOOL** | | |
| Site Address: | 1001 W 15TH ST<br>SAN PEDRO, CA 90731 | | |

[✓] VERIFIED FACILITY PHONE NUMBER
PHONE NO: ~~(310) 377-3948~~ 310 241 5801

Account Info
Account Outstanding Balance:
Number of Outstanding Invoices: 0

[✓] VERIFIED MAILING ADDRESS
MAILING ADDRESS: 333 S BEAUDRY AVE 28TH FL
(INVOICES/PERMITS) LOS ANGELES, CA 90017

ACTIVE PROGRAMS:

| PE | PE DESCRIPTION | UNITS |
|---|---|---|
| MAIN_SITE | | |
| 1001 | PR0022892 \| HW GEN, 0-5 EMPLOYEES | |
| 4501 | PR0001940 \| HAZ MAT INVENTORY 4 TO 7 CHEMICALS | |

[✓] VERIFIED OWNER INFO
OWNER NAME: LOS ANGELES UNIFIED SCHOOL DIS
OWNER MAILING ADDRESS: 333 S BEAUDRY AVE. 28TH FL
LOS ANGELES. CA 90017
PHONE: (213) 241-3199

**DATA ENTRY INSTRUCTION(S): Check Appropriate Boxes**

[✓] Changes On BP 01
[ ] UST Abandon Sheets
[ ] Changes On Attached CUPA Form(s)

[✓] Changes On BP 08
[ ] UST Installation Sheets
[ ] Enter Inventory on Attached CUPA Forms

[ ] Inactive Business *Journal Entry should Be Included*
Reason:

[ ] Other Instruction: *For Examples: Combine Business Under One BP Number*



Reduced to VGN today
No longer have auto shop.

Data Entry Name: _____ Date: 6/5/12

CITY OF LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3880

# BUSINESS INFORMATION

Printed on: 3/28/2012

**INSTRUCTIONS:** Please complete and sign this form; your signature indicates that the information, as supplied, is accurate.
**Business Number:** FA0002241 This is your current business plan number. This number must appear on all business plan forms!
**Business Name :** LAUSD - SAN PEDRO HIGH SCHOOL

**Business Site Address:** 1001 W 15TH ST
SAN PEDRO, CA 90731

**Mailing Address** 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017

**Other On-Site Addresses:**

**Briefly describe the nature of the hazardous materials operations:**

**# OF EMPLOYEES:**

| CONTACT | WORK # | 24 HOUR # | PAGER # |
|---|---|---|---|
| **Owner Name:** LOS ANGELES UNIFIED SCHOOL DIS | (213) 241-3199 | - | - |
| **On-Site Manager:** | | - | - |
| **Emergency Contact:** SAN PEDRO HIGH SCHOOL | 310 241 5801 ~~(310) 547-2491~~ | [redacted] | |
| **2nd Emergency Contact:** SAN PEDRO HIGH SCHOOL Plant Mgr. | ~~(310) 547-2491~~ 310 241 5871 | | |

Signature of Legal Business Owner/Authorized Representative

PLANT MGR
Title

4/19/12
Date

Business Plan has been reviewed and approved: _____

OFFICE USE ONLY Insp. ID: _____ Date: _____ D/E ID: _____ Date: _____ TS: _____

CITY OF LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3880

Business No : FA0002241
First In : 048
District # : 423

# Hazardous Materials System
## BP-8: Computer Listing of Inventory
## SubmittedInspection Responsibility: VIU

Printed on: 3/28/2012

| | | | |
|---|---|---|---|
| Business Name | : LAUSD - SAN PEDRO HIGH SCHOOL | Business Address | : 1001 W 15TH ST |
| Business Owner | : LOS ANGELES UNIFIED SCHOOL DIS | | SAN PEDRO, CA 90731 |
| On-Site Manager | : | Phone # | : |
| Emergency Contact | : SAN PEDRO HIGH SCHOOL | Phone # | : (310) 547-2491 |
| Alt Emergency Contact | : SAN PEDRO HIGH SCHOOL | Phone # | : (310) 547-2491 |
| Next Inspection Date: | : 6/15/2012 | SIC Code | : |
| # of Employees | : | Permit Date | : 10/18/2011 |

LOCATION: [redacted]

Total Chemicals: 5

Chemicals at Location: 3

| Chemical Name | HM Type | Max Quantity on Hand | State | Fed Haz Catg. |
|---|---|---|---|---|
| DIESEL | MIXTURE | 55.00 GALLONS | LIQUID | |

Container: [redacted]

| Chemical Name | HM Type | Max Quantity on Hand | State | Fed Haz Catg. |
|---|---|---|---|---|
| GASOLINE | MIXTURE | 110.00 GALLONS | LIQUID | |

Container: [redacted]

| Ingredients | CAS # |
|---|---|
| TOLUENE | 108883 |
| XYLENE | 1330207 |
| METHYL TERT-BUTYL ETHER | 1634044 |

| Chemical Name | HM Type | Max Quantity on Hand | State | Fed Haz Catg. |
|---|---|---|---|---|
| LATEX PAINT | MIXTURE | ~~1,200.00 GALLONS~~ 600 | LIQUID | |

Container: [redacted]

LOCATION: [redacted]

Chemicals at Location: 2

| Chemical Name | HM Type | Max Quantity on Hand | State | Fed Haz Catg. |
|---|---|---|---|---|
| OXYGEN Delete | PURE | ~~220.00 GALLONS~~ | GAS | |

Container: [redacted] CU

closed Auto Shop

| Chemical Name | HM Type | Max Quantity on Hand | State | Fed Haz Catg. |
|---|---|---|---|---|
| USED MOTOR OIL Delete | WASTE | 55.00 GALLONS | LIQUID | |

Container: [redacted]

My signature indicates that I have verified and agreed with the types and quantities of hazadous materials at this address.

[FA0002241] CHEMICAL COUNT: 5

INSP SIG: _____ INSP. DATE: 4/19/12

BUS. REP. SIG: _____ DATE: 4/19/12

Data Date: 3/28/2012

Los Angeles Fire Department

# HMBP Compliance Inspection Checklist

FACILITY NAME S.P.H.S. INSPECTION DATE 4/19/12

FACILITY ID # FA 2241

☑ Routine 006 ☐ Follow-Up 006 ☐ Re-inspection 007 ☐ Other 008

| REQUIREMENT | AUTHORITY | COMPLIANT | NON-COMPLIANT | |
|---|---|---|---|---|
| Establish and implement an HMBP | CCR 2729.1 | ✓ | | I |
| Submit a complete and current HMBP to LAFD | CCR 2729.2 | ✓ | | M |
| Maintain a copy of the current HMBP on site | CCR 2729.1 | ✓ | | M |
| A. HAZARDOUS MATERIALS INVENTORY REPORTING | | | | |
| UPCF Business Activity, Business Owner/Operator Identification Form | CCR 2729.2 | ✓ | | M |
| B. EMERGENCY RESPONSE PLANS AND PROCEDURES | | | | |
| Immediate Notification of local Emergency Response Personnel | CCR 2731.a1 | ✓ | | 1 |
| Immediate Notification of CUPA and CalEMA | CCR 2731.a2 | ✓ | | 2 |
| Immediate Notification of Necessary Personnel | CCR 2731.a3 | ✓ | | 2 |
| Identification of local Emergency Medical Assistance | CCR 2731.b | ✓ | | 1 |
| Evacuation Procedures | CCR 2731.d | ✓ | | 1 |
| Identification of Systems requiring Immediate Inspection/Isolation in the Event of an Earthquake | CCR 2731.e | ✓ | | 2 |
| Mitigation, Prevention or Hazard Abatement Procedures | CCR 2731.c | ✓ | | 1 |
| C. EMPLOYEE TRAINING - INITIAL AND REFRESHER | | | | |
| Methods for safe handling of hazardous materials | CCR 2732 | ✓ | | I |
| Procedures for coordination with local responders | CCR 2732 | ✓ | | M |
| Use of emergency response equipment and supplies | CCR 2732 | ✓ | | M |
| Facility emergency response plans and procedures | CCR 2732 | ✓ | | M |
| Annotated Site Map | CCR 2729.2 | ✓ | | M |
| Hazardous Materials Inventory Information | CCR 2729.2 | ✓ | | M |
| MSDS are accessible (Material Safety Data Sheet) | CCR 2731.c | ✓ | | M |
| Emergency shutoffs for chemical processes or equipment are labeled | CCR 2731.c | ✓ | | M |
| Spill control and spill mitigation materials are available (absorbents, rags, or shop vacuum) | CCR 2731.c | ✓ | | 2 |
| All containers are kept closed unless in use | CCR 2731.c | ✓ | | 2 |
| All containers ar in good condition | CCR 2731.c | ✓ | | 2 |
| Containers are stored in a manner to prevent rupture, leaking, or structural deterioration | CCR 2731.c | ✓ | | 2 |
| Containers are compatible with content | CCR 2731.c | ✓ | | 2 |
| Containers are properly labeled | CCR 2731.c | ✓ | | 2 |
| Containers of hazardous materials are disposed of properly when empty | CCR 66261.7 | ✓ | | 2 |
| All spills promptly addressed to prevent discharged to air, soil, or surface water. | CCR 2731.c | ✓ | | 2 |
| Storage area is maintained to separate incompatible materials. | CCR 2731.c | ✓ | | 1 |
| Facilities storing petroleum in eligible AST's (total capacity >1320-gallons, has a SPCC plan on site). | CHSC 2527.4.5a | Not | | I |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

☑ NO VIOLATIONS OBSERVED VIOLATION CODES: MINOR – 03; CLASS I – 01; CLASS II - 02

Inspector Signature _____ Facility Rep. Signature _____ Date 4/19/12

FACILITY ADDRESS: SAN PEDRO #5

## HAZARDOUS MATERIALS INSPECTION GUIDELINES:

**OFFICE:**

- ☑ Pull file, check history
- ☑ Check Envision to review notes, history or special instructions
- ☐ Print Inspection Packet, which includes:

1. BP 1
2. BP 8
3. UP Forms for updating chemical inventory
4. Business Plan Review
5. Packet should accompany you on the inspection, if inspection requires a phone call to gain entry, contact responsible party
6. Invoice, to see if facilities fees are current

**INSPECTION: Upon Arrival**

- ☑ Check address on facility, does the business name match what's listed on the BP1
- ☑ Check for visual hazards, placards, blocked egress, etc
- ☑ Make contact with responsible party
- ☑ Check to see if CUPA Permit is posted and current
- ☑ Update BP 1 and have responsible party sign verifying the information is correct
- ☑ Perform inspection to update chemical inventory on BP 8, for each updated chemical, **completely** fill out a (UP) Chemical Description Form
- ☑ Ensure the responsible party signs and dates BP 8
- ☑ Check for signs of illegal processes and illegal dumping, check dumpsters outside and drains
- ☐ If violations are found, Take photos of violations found
- ☐ Write a notice sighting violations and leave a copy with the responsible party
- ☑ Thank the responsible party for their time and exit the facility

**RETURN TO OFFICE:**

- ☐ Place a copy of completed notice in notice book on Capt Gatewood's desk
- ☑ Enter completed inspection into Envision with notes of who you met with and if a notices was written
- ☐ Any chemical inventory or processes not understood, check with RMPPS SPECIALIST OR THE INDUSTRIAL HYGENIST
- ☐ Prepare an F-290 packet if necessary
- ☑ Place completed inspection in the appropriate box for processing

Name C.W. Stevens Signature [signature] Date 9/05/12

**RETURN THIS FORM ATTACHED TO DEIF, BP1 AND BP8**

FACILITY ID 2241

# BUSINESS PLAN REVIEW REPORT

- **BUSINESS ACTIVITY – PAGE 3**
  - FACILITY IDENTIFICATION – VERIFY NUMBER ON TOP OF ALL PAGES
  - ACTIVITIES DECLARATION – VERIFY COMPLETENESS

- **BUSINESS OWNER/OPERATOR IDENTIFICATION – PAGE 5**
  - SECTION I-V: VERIFY COMPLETENESS AND REFER CHANGES TO DATA MANAGEMENT
  - VERIFY SIGNATURE AND DATE ARE PRESENT

- **CONSOLIDATED CONTINGENCY PLAN/ COVER PAGE – PAGE 7**
  - PLAN CERTIFICATION – VERIFY SIGNATURE AND DATE ARE PRESENT

- **SECTION I: BUSINESS PLAN/ CONTINGENCY PLAN –PAGE 9-13**
  - EMERGENCY CONTACT - VERIFY COMPLETENESS AND REFER CHANGES TO DATA MANAGEMENT
  - EMERGENCY RESPONSE PLANS AND PROCEDURES
    - (A) EMERGENCY NOTIFICATION PAGE – 9: 911 INDICATED
    - (B) EMERGENCY MEDICAL FACILITY PAGE 9: APPROPRIATE LOCATION
    - (C) PRIVATE EMERGENCY RESPONSE PAGE 10: VERIFY APPLICABILITY
    - (D) ARRANGEMENTS WITH EMERGENCY RESPONDERS PAGE 10: VERIFY APPLICABILITY
    - (E) EVACUATION PLANS PAGE 10: VERIFY ALARM, VERBAL WARNING, MAP DIRECTIONS, AND RESPONSIBLE PERSON
    - (F) EARTHQUAKE VULNERABILITY PAGE 10: VERIFY COMPLETENESS
    - (G) EMERGENCY PROCEDURES PAGE 11:
      - PREVENT – INSPECTION/ MONITORING AND CONTAINMENT
      - MITIGATION – SMALL & LARGE LEAKS/SPILLS
      - ABATEMENT – SMALL & LARGE LEAKS/SPILLS
  - EMERGENCY EQUIPMENT PAGE 12: VERIFY COMPLETENESS
  - EMPLOYEE TRAINING LOG PAGE 13: VERIFY COMPLETENESS
  - HAZARDOUS WASTE GENERATOR TRAINING LOG PAGE 13: VERIFY COMPLETENESS

- **SECTION II: UST EMERGENCY RESPONSE & MONITORING PLAN PAGE 15-16:**
  - MONITORING PLAN & PROCEDURES PAGE 15: VERIFY COMPLETENESS
  - EMERGENCY RESPONSE PLAN PAGE 16: VERIFY COMPLETENESS OF NAME, ADDRESS, PHONE NUMBERS OF RESPONSIBLE PARTY
  - DISPOSAL, LOCATION OF EQUIPMENT, AND MAINTENANCE SCHEDULE PAGE 16: VERIFY COMPLETENESS
  - *TANK INFORMATION FOR EACH TANK ON THE PROPERTY*
  - *FORM – A/B or ½ "D"*
  - *IDENTIFICATION OF DESIGNATED OPERATOR*

- **SITE MAP PAGE 17:**
  - ADDRESS, ORIENTATION, HAZ-MAT STORAGE LOCATIONS, TANK LOCATIONS, MONITORING LOCATION,

- **HAZARDOUS MATERIAL INVENTORY/ CHEMICAL DESCRIPTION PAGE 21:**
  - VERIFY COMPLETENESS (add, delete, or revised inventory), "SME" TO VERIFY CHEMICAL DATA.

- **REGULATED SUBSTANCE REGISTRATION PAGE 23:**
  - VERIFY COMPLETENESS

- **HAZARDOUS GENERATOR – PAGE 29:**
  - TYPE OF GENERATOR PAGE 29: VERIFY COMPLETENESS
  - WASTE STREAM IDENTIFICATION PAGE 29: VERIFY COMPLETENESS
  - VERIFY SIGNATURE AND DATE ARE PRESENT

Reviewed by: ENV _____ Data Entry: _____ Chemical review: _____ Date:_____

F-340 C HMBP REVIEW NOV

Part 1 – Citizen
Part 2 – Fire Department
Part 3 – Fire Department

City of Los Angeles

# FIRE DEPARTMENT

## FIRE/LIFE SAFETY VIOLATION

NOTICE # ____/____-____-____/_____
INSP#,6-DIG DATE,LAST 5-FAC ID.

| OCCUPANCY | DISTRICT | BLOCK NO. | MAP BOOK | PAGE | PARCEL | DATE: |
|---|---|---|---|---|---|---|
| TO: | | | FIRM OR D.B.A. | | | |
| ADDRESS: | | (STREET) | | (CITY) | (STATE) ZIP CODE | PHONE |
| ADDRESS OF VIOLATION: | | (STREET) | | (CITY) | (STATE) ZIP CODE | FACILITY ID: |

**Under the authority of the State of California and the Los Angeles Fire Department CUPA, a review of your "Business Plan has been conducted. The following violations have been identified:**

**COMPLY WITH THE FOLLOWING REQUIREMENTS IN ACCORDANCE WITH CCR 2729 - 2732:**

1) BUSINESS ACTIVITY
   1. EPA ID NUMBER SHALL BE CLEARLY IDENTIFIED (HW, RECYCLER, HW TREATMENT
   2. ACTIVITIES DECLARATION SHALL BE COMPLETE AND ACCURATE
2) BUSINESS OWNER/OPERATOR IDENTIFICATION
   1. THIS PAGE MUST CONTAIN A SIGNATURE FROM THE RESPONSIBLE PARTY
   2. THIS PAGE SHALL CONTAIN THE DUN & BRAD STREET NUMBER
   3. THIS PAGE SHALL CONTAIN THE "SIC" NUMBER
   4. THIS PAGE SHALL CONTAIN THE TAX ID NUMBER
3) CONSOLIDATED CONTINGENCY PLAN/ COVER PAGE
   A CERTIFICATION SIGNATURE AND DATE SHALL BE PRESENT
   THE PRE-ESTABLISHED STORAGE LOCATION OF THE BUSINESS PLAN SHALL BE INDICATED
4) SECTION I: BUSINESS PLAN/ CONTINGENCY PLAN PAGE
   1. EMERGENCY CONTACT (ALL INFORMATION SHALL BE COMPLETE AND ACCURATE
   2. EMERGENCY RESPONSE PLANS AND PROCEDURES SHALL BE CLEARLY INDICATED
      a) (A) EMERGENCY NOTIFICATION SHALL INCLUDE NAMES, NUMBERS, AND FIRE DEPARTMENT CONTACT PAGE 9
      b) (B) EMERGENCY MEDICAL FACILITY SHALL LIST THE MOST ACCESSIBLE FACILITY PAGE 9
      c) (C) PRIVATE EMERGENCY RESPONSE SHALL INDICATE AGENCY NAME, NUMBER AND PROCEDURES TO ACQUIRE ASSISTANCE PAGE 10
      d) (D) ARRANGEMENTS WITH EMERGENCY RESPONDERS SHALL IDENTIFY THE SCOPE OF SERVICES PROVIDED PAGE 10
      e) (E) EVACUATION PLANS SHALL BE CLEARLY IDENTIFIED PAGE 10
      f) (F) EARTHQUAKE VULNERABILITY SHALL IDENTIFY ALL AREAS OF VULNERABILITY DURING AN EARTHQUAKE PAGE 10
      g) (G) EMERGENCY PROCEDURES PAGE 11
         I. PREVENT – INSPECTION/ MONITORING AND CONTAINMENT PRACTICES SHALL BE LISTED
         II. MITIGATION – SMALL & LARGE LEAKS/SPILLS INITIAL ACTION SHALL BE LISTED
         III. ABATEMENT – SMALL & LARGE LEAKS/SPILLS INITIAL ACTIONS SHALL BE LISTED
   3. EMERGENCY EQUIPMENT THE EQUIPMENT LIST SHALL MATCH THE PROCESSES LISTED FOR MITIGATION AND ABATEMENT PAGE 12
   4. EMPLOYEE TRAINING LOG THE LOG SHALL CONSIST OF THE EMPLOYEE NAMES TRAINING SUBJECTS AND DATES OF TRAINING PAGE 13
   5. HAZARDOUS WASTE GENERATOR TRAINING LOG SHALL CONSIST OF POSITIONS, TITLES TRAINING SUBJECTS, REQUIREMENTS, LAST 3-YEARS OF TRAINING CONDUCTED PAGE 13
5) SECTION II: UST EMERGENCY RESPONSE & MONITORING PLAN PAGE
   1. MONITORING PLAN & PROCEDURES DOCUMENTATION SHALL BE COMPLETE AND ACCURATE PAGE 15
   2. EMERGENCY RESPONSE PLAN DOCUMENTATION SHALL BE COMPLETE AND ACCURATE PAGE 16
   3. DISPOSAL, LOCATION OF EQUIPMENT, AND MAINTENANCE SCHEDULE SHALL BE LISTED PAGE 16
   4. *TANK INFORMATION FOR EACH TANK ON THE PROPERTY SHALL BE ACCURATELY DOCUMENTED*
   5. *FORM – A/B/D*
   6. *IDENTIFICATION OF DESIGNATED OPERATOR*
6) SITE MAP PAGE 17
7) HAZARDOUS MATERIAL INVENTORY/ CHEMICAL DESCRIPTION PAGE 21
   1. SHALL BE COMPLETE AND ACCURATE FOR EACH CHEMICAL ON SITE
8) REGULATED SUBSTANCE REGISTRATION PAGE 23
   1. THIS SECTION SHALL BE COMPLETED IF THE CHEMICAL IS USED @ A STATIONARY SOURCE AT OR ABOVE THE THRESHOLD LIMIT OR IS AN EXTREMELY HAZARDOUS SUBSTANCE. MUST CONTAIN AN EPA# AN DUN & BRADSTREET# AND THE SIC CODE
9) HAZARDOUS GENERATOR – PAGE 29:
   1. TYPE OF GENERATOR SHALL BE CLEARLY INDICATED PAGE 29
   2. WASTE STREAM IDENTIFICATION SHALL BE COMPLETE (IF APPLICABLE) PAGE 29
10) MISCELLANEOUS DOCUMENTATION

**FAILURE ON YOUR PART TO COMPLY WITH THIS NOTICE ON OR BEFORE: ____/____/____ WILL SUBJECT YOU TO PENALTIES PRESCRIBED BY SAID ORDINANCE. A FIRE DEPARTMENT RE-INSPECTION OF YOUR FACILITY SHALL BE MADE FOR FULL COMPLIANCE.**

RECEIVED BY: _____ TITLE: _____

| FOR ADDITIONAL INFORMATION, PLEASE CALL | DATE COMPLETED ____/____/____ INSPECTOR: | BY ORDER OF THE FIRE CHIEF _____ INSPECTOR SIGNATURE: _____ ASSIGNMENT |
|---|---|---|

FA 2241

# Los Angeles Unified School District

## Office of Environmental Health and Safety

JOHN E. DEASY
*Superintendent of Schools*

ENRIQUE G. BOULLT
*Interim Chief Operating Officer*

JOHN STERRITT
*Director*

February 17, 2012

Los Angeles County Fire Department
Health Hazardous Materials Division
Data Operations Unit
5825 Rickenbacker Road
Commerce, CA 90040

City of Los Angeles Fire Department
Fire Prevention Bureau
Technical Section
200 N. Main Street, Room 1780
Los Angeles, CA 90012

**SUBJECT: SUBMITTAL OF CONSOLIDATED CONTINGENCY PLAN FOR SAN PEDRO HIGH SCHOOL**

The Los Angeles Unified School District would like to submit a Consolidated Contingency Plan for the following site:

Facility Name: San Pedro High School
Street Address: 1001 West 15th Street
City, State Zip: San Pedro, CA 90731

This plan is for the reporting year 2012. If you have any questions, please contact me at (213) 241-3199.

Sincerely,

E. Dent

Erica Dent

c. Soe Aung, Environmental Health Supervisor
Jeanette Stevens, San Pedro High School

Enclosure(s):

# UNIFIED PROGRAM (UP) FORM
# BUSINESS ACTIVITIES



## I. FACILITY IDENTIFICATION

| FACILITY ID # | F | A | 0 | 0 | 0 | 2 | 2 | 4 | 1 | | | 1 | EPA ID # (Hazardous Waste Only) 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | CAD982022642 |

BUSINESS NAME (Same as Facility Name of DBA-Doing Business As) 3

**San Pedro High School**

## II. ACTIVITIES DECLARATION

**NOTE: If you check YES to any part of this list, please submit the Business Owner/Operator Identification page.**

| Does your facility... | | If Yes, please complete these pages of the UP FORM.... |
|---|---|---|
| **A. HAZARDOUS MATERIALS** | | |
| Have on site (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70? | ☑ Yes ☐ No 4 | →HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION<br>→CONSOLIDATED CONTINGENCY PLAN (Section I and Site Map(s))<br>→TRAINING PLAN |
| **B. UNDERGROUND STORAGE TANKS (USTs)** | | |
| 1. Own or operate underground storage tanks? | ☐ Yes ☑ No 5 | →UST FACILITY<br>→UST TANK (one page per tank) |
| 2. Intend to upgrade existing or install new USTs? | ☐ Yes ☑ No 6 | →UST FACILITY<br>→UST TANK (one per tank)<br>→UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank) |
| 3. Need to report closing a UST? | ☐ Yes ☑ No 7 | →UST TANK (closure portion –one page per tank) |
| **C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs)** | | |
| Own or operate ASTs above these thresholds:<br>---any tank capacity is greater than 660 gallons, or<br>---the total capacity for the facility is greater than 1,320 gallons? | ☐ Yes ☑ No 8 | NO FORM REQUIRED TO CUPAs |
| **D. HAZARDOUS WASTE** | | |
| 1. Generate hazardous waste? | ☑ Yes ☐ No 9 | →EPA ID NUMBER – provide at the top of this page.<br>→As a generator, answer YES to Item E2b and complete Waste Generator Form. |
| 2. Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)? | ☐ Yes ☑ No 10 | →RECYCLABLE MATERIALS REPORT |
| 3. Treat hazardous waste on site? | ☐ Yes ☑ No 11 | →ONSITE HAZARDOUS WASTE TREATMENT – FACILITY<br>→ONSITE HAZARDOUS WASTE TREATMENT – UNIT (one page per unit) |
| 4. Treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)? | ☐ Yes ☑ No 12 | →CERTIFICATION OF FINANCIAL ASSURANCE |
| 5. Consolidate hazardous waste generated at a remote site? | ☐ Yes ☑ No 13 | →REMOTE WASTE / CONSOLIDATION SITE ANNUAL NOTIFICATION |
| 6. Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite? | ☐ Yes ☑ No 14 | →HAZARDOUS WASTE TANK CLOSURE CERTIFICATION |
| **E. LOCAL REQUIREMENTS** | | 15 |
| **1. REGULATED SUBSTANCES** | | |
| Have Regulated Substances (RS) stored on site at greater than the threshold quantities established by the California Accidental Release Program (Cal ARP) ? | ☐ Yes ☑ No 15a | In addition to Hazardous Materials requirements, complete:<br>→Regulated Substance Registration<br>→Risk Management Plan (when required) |
| **2. OTHER REQUIREMENTS** | | |
| a. Have hazardous materials stored on site at or above a threshold amount established by a CUPA's or PA's local ordinance? | ☐ Yes ☑ No 15b | →Consult local CUPA or PA for added reporting requirements. |
| b. Required by a CUPA or PA to provide other information? | ☑ Yes ☐ No 15c | →Waste Generator Form (LA County) |

| OFFICIAL USE ONLY | UP Form | HW | HM | ARP | AST | UST | TP | CUPA | PA |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

# UNIFIED PROGRAM (UP) FORM
# BUSINESS OWNER/OPERATOR IDENTIFICATION

☐ NEW BUSINESS ☐ OUT OF BUSINESS ☑ REVISE/UPDATE (EFFECTIVE ) PAGE OF

## I. IDENTIFICATION

| | | | |
|---|---|---|---|
| FACILITY ID# FA 0002241 [1] | BEGINNING DATE [100] 1/1/2012 | ENDING DATE [101] 12/31/2012 | |
| BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) [3] San Pedro High School | | BUSINESS PHONE [102] (310) 241-5800 | |
| BUSINESS SITE ADDRESS [103] 1001 West 15th Street | | | |
| CITY San Pedro [104] | CA | ZIP CODE 90731 [105] | |
| DUN & BRADSTREET N/A [106] | | SIC CODE (4 digit #) 8211 [107] | |
| COUNTY Los Angeles [108] | | UNINCORPORATED No [133a.] | |
| BUSINESS OPERATOR NAME [109] Los Angeles Unified School District | | BUSINESS OPERATOR PHONE [110] (213) 241-3199 | |

## II. BUSINESS OWNER

| | | |
|---|---|---|
| OWNER NAME [111] Los Angeles Unified School District | | OWNER PHONE [112] (213) 241-3199 |
| OWNER MAILING ADDRESS [113] 333 S. Beaudry Avenue, 28th Floor | | |
| CITY [114] Los Angeles | STATE [115] CA | ZIP CODE [116] 90017 |

## III. ENVIRONMENTAL CONTACT

| | | |
|---|---|---|
| CONTACT NAME [117] Soe Aung | | CONTACT PHONE [118] (213) 241-3199 |
| CONTACT MAILING ADDRESS [119] 333 S. Beaudry Avenue, 28th Floor | | |
| CITY Los Angeles [120] | STATE CA [121] | ZIP CODE 90017 [122] |

## IV. EMERGENCY CONTACTS

| -PRIMARY- | -SECONDARY- |
|---|---|
| NAME [123] Jeanette Stevens | NAME [128] Aadil Naazir |
| TITLE [124] Principal | TITLE [129] Assistant Principal |
| BUSINESS PHONE (310) 241-5802 [125] | BUSINESS PHONE (310) 241-5802 [130] |
| 24-HOUR PHONE [redacted] [126] | 24-HOUR PHONE [redacted] [131] |
| PAGER # [127] | PAGER # [132] |

## V. ADDITIONAL LOCALLY COLLECTED INFORMATION [133]

| | |
|---|---|
| NUMBER OF EMPLOYEES 5 [133b] | FEDERAL TAX IDENTIFICATION NUMBER [redacted] [133c] |

## MAILING/ BILLING INFORMATION

| ADDRESS [133d] | CITY [133e] | STATE [133f] | ZIP CODE [133g] |
|---|---|---|---|
| 333 S. Beaudry Avenue, 28th Floor | Los Angeles | CA | 90017 |

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

| | | |
|---|---|---|
| SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE | DATE [134] 2/8/2012 | NAME OF DOCUMENT PREPARER [135] Erica Dent |
| NAME OF SIGNER (print) [136] Jeanette Stevens | TITLE OF SIGNER [137] Principal | |

| OFFICIAL USE ONLY | UP Form | HW | HM | ARP | AST | UST | TP | CUPA | PA |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| INSPECTOR | DISTRICT | DATE OF INSPECTION | DIVISION | BATTALION | STATION |
|---|---|---|---|---|---|
| | | | | | |

# Unified Program (UP) Form
# CONSOLIDATED CONTINGENCY PLAN

## COVER PAGE

| FACILITY IDENTIFICATION | | | | | |
|---|---|---|---|---|---|
| BUSINESS NAME<br>**San Pedro High School** | | | 3 | FACILITY ID # 1<br>**FA0002241** | |
| SITE ADDRESS<br>**1001 West 15th Street** | 103 | CITY<br>**San Pedro** | 104 | ZIP CODE<br>**90731** | 105 |

The Consolidated Contingency Plan provides businesses a format to comply with the emergency planning requirements of the following three written hazardous materials emergency response plans required in California:

- ◁ Hazardous Materials Business Plan (HSC Chapter 6.95 Section 25504 (b) and 19 CCR Sections 2729-2732),
- ◁ Hazardous Waste Generator Contingency Plan (22 CCR Section 66264.52), and,
- ◁ Underground Storage Tank Emergency Response Plan and Monitoring Program (23 CCR Sections 2632 and 2641).

This format is designed to reduce duplication in the preparation and use of emergency response plans at the same facility, and to improve the coordination between facility response personnel and local, state and federal emergency responders during an emergency. Use the chart below to determine which sections of the Consolidated Contingency Plan need to be completed for your facility. If you are unsure as to which programs your facility is subject to, refer to the Business Activities Page.

| PROGRAMS | SECTION(S) TO BE COMPLETED |
|---|---|
| Hazardous Materials Business Plan (HMBP) | Cover Page, Section I, and Site Map(s) |
| Hazardous Waste Generator (HWG) | Cover Page, Section I, and Site Map(s) |
| Underground Storage Tank (UST) | Cover Page, Sections I and II, and Site Map(s) |
| HMBP, HWG, UST | Cover Page, Sections I and II, and Site Map(s) |

**A copy of the plan shall be submitted to your local CUPA and at least one copy of the plan shall be maintained at the facility for use in the event of an emergency and for inspection by the local agency.** Describe below where a copy of your Contingency Plan, including the hazardous material inventories and Site Map(s), is located at your business:

**Main Office**

| PLAN CERTIFICATION | |
|---|---|
| *I certify under penalty of law that I have personally examined and I am familiar with the information provided by this plan and to the best of my knowledge the information is accurate, complete, and true.* | |
| Printed Name of Owner/ Operator<br>**Jeanette Stevens** | Title of Owner/Operator<br>**Principal** |
| Signature of Owner/ Operator | Date<br>**2/8/2012** |

We appreciate the effort of local businesses in completing these plans and will assist in every possible way. If you have any questions, please contact your local CUPA or PA.

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# Unified Program (UP) Form
# CONSOLIDATED CONTINGENCY PLAN

## SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

### I. FACILITY IDENTIFICATION

| | | | | |
|---|---|---|---|---|
| BUSINESS NAME<br>**San Pedro High School** | 3 | | | FACILITY ID # 1<br>**FA0002241** |
| SITE ADDRESS<br>**1001 West 15th Street** | 103 | CITY<br>**San Pedro** | 104 | ZIP CODE 105<br>**90731** |

### II. EMERGENCY CONTACTS

| PRIMARY | | SECONDARY | |
|---|---|---|---|
| NAME<br>**Jeanette Stevens** | 123 | NAME<br>**Aadil Naazir** | 128 |
| TITLE<br>**Principal** | 124 | TITLE<br>**Assistant Principal** | 129 |
| BUSINESS PHONE<br>**(310) 241-5802** | 125 | BUSINESS PHONE<br>**(310) 241-5802** | 130 |
| 24-HOUR PHONE<br>**(213) 625-6640** | 126 | 24-HOUR PHONE<br>**(213) 625-6640** | 131 |
| PAGER # | 127 | PAGER # | 132 |

### III. EMERGENCY RESPONSE PLANS AND PROCEDURES

#### A. Notifications

Your business is required by State Law to provide an immediate verbal report of any release or threatened release of a hazardous material to local fire emergency response personnel, this Unified Program Agency (CUPA or PA), and the Office of Emergency Services. If you have a release or threatened release of hazardous materials, immediately call:

FIRE/PARAMEDICS/POLICE/SHERIFF
PHONE: 911

**AFTER** the local emergency response personnel are notified, you shall then notify this Unified Program Agency and the Office of Emergency Services.

Local Unified Program Agency: (323) 890-4317
State Office of Emergency Service: (800) 852-7550 or (916) 262-1621
National Response Center: (800) 424-8802

Information to be provided during Notification:

- ◁ Your Name and the Telephone Number from where you are calling.
- ◁ Exact address of the release or threatened release.
- ◁ Date, time, cause, and type of incident (e.g. fire, air release, spill etc.)
- ◁ Material and quantity of the release, to the extent known.
- ◁ Current condition of the facility.
- ◁ Extent of injuries, if any.
- ◁ Possible hazards to public health and/ or the environment outside of the facility.

#### B. Emergency Medical Facility

List the local emergency medical facility that will be used by your business in the event of an accident or injury caused by a release or threatened release of hazardous material

| | |
|---|---|
| HOSPITAL/CLINIC:<br>**Little Company of Mary - San Pedro** | PHONE NO:<br>**(310) 832-3311** |
| ADDRESS:<br>**1300 W. 7th Street** | |
| CITY:<br>**San Pedro** | ZIP CODE:<br>**90732** |

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# Unified Program (UP) Form
# CONSOLIDATED CONTINGENCY PLAN

## SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

### C. Private Emergency Response

**DOES YOUR BUSINESS HAVE A PRIVATE ON-SITE EMERGENCY RESPONSE TEAM?** ☐ Yes ☑ No

If yes, provide an attachment that describes what policies and procedures your business will follow to notify your on-site emergency response team in the event of a release or threatened release of hazardous materials.

**CLEANUP/DISPOSAL CONTRACTOR**

List the contractor that will provide cleanup services in the event of a release.

| NAME OF CONTRACTOR: | PHONE NO: |
|---|---|
| **Ecology Control Industries** | **(310) 354-9999** |
| ADDRESS: **19500 Normandie Avenue** | |
| CITY: **Torrance, CA** | ZIP CODE: **90501** |

### D. Arrangements With Emergency Responders

If you have made special (i.e. contractual) arrangements with any police department, fire department, hospital, contractor, or State or local emergency response team to coordinate emergency services, describe those arrangements on the lines below:

**All LAUSD schools are served by the School District Police Department. In addition, they are supported by the District's Office of Environmental Health and Safety that has an Emergency Response team that is trained and licensed to oversee hazardous material clean-up.**

### E. Evacuation Plan

1. The following alarm signal(s) will be used to begin evacuation of the facility *(check all which apply)*:

☑ Verbal ☑ Telephone *(including cellular)* ☑ Alarm System ☑ Public Address System ☑ Intercom
☐ Pagers ☑ Portable Radio ☐ Other *(specify)*:

2. ☑ Evacuation map is prominently displayed throughout the facility. **Yes. In the Safe School Plan**

3. ☑ Individual(s) responsible for coordinating evacuation including spreading the alarm and confirming the business has been evacuated: **All Administrative Staff, Certificated and Classified Staff - See Safe School Plan, Volume 2**

### F. Earthquake Vulnerability

Identify areas of the facility where releases could occur or would require immediate inspection or isolation because of the vulnerability to earthquake related ground motion.

☑ Hazardous Waste/ Hazardous Materials Storage Areas ☐ Production Floor ☐ Process Lines
☐ Bench/ Lab ☐ Waste Treatment ☐ Other:

Identify mechanical systems where releases could occur or would require immediate inspection or isolation because of the vulnerability to earthquake related ground motion.

☑ Utilities ☑ Sprinkler Systems ☑ Cabinets ☑ Shelves
☑ Racks ☐ Pressure Vessels ☐ Gas Cylinders ☐ Tanks
☐ Process Piping ☑ Shutoff Valves ☐ Other:

## Unified Program (UP) Form
## CONSOLIDATED CONTINGENCY PLAN

## SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

### G. Emergency Procedures

Briefly describe your business standard operating procedures in the event of a release or threatened release of hazardous materials:

1. **PREVENTION** (prevent the hazard) - Describe the kinds of hazards associated with the hazardous materials present at your facility. What actions would your business take to prevent these hazards from occurring? You may include a discussion of safety and storage procedures.

**All Los Angeles City schools are limited to a small number of approved chemicals that are allowed on campus. Chemistry classes are encouraged to use "Micro Chemistry" to reduce the quantity of chemicals being used and stored on campus. Schools are not allowed to store or use any kinds of herbicides or pesticides for weed or pest management.**

**Gasoline drums shall be stored inside a locked flammable liquid storage room (i.e. gasoline bunker or block house) and shall be posted with 'No Smoking' and 'Flammable Liquid' signs outside the room. Gasoline drums shall be grounded with wire at all times. Diesel drums shall also be kept inside the flammable liquid storage room. 'No Smoking' and ' Combustible Liquid' signs shall be posted for diesel drums. Welding process shall not be conducted nearby this room. It is strongly suggested to store minimal quantity and to use secondary containment system for these drums.**

**Compressed gas cylinders shall be chained at all times. A compressed gas sign shall be posted on the cylinder(s) or by the cylinder(s). Waste oil and waste anti-freeze drums shall be kept inside the secondary containment system and affixed with completed hazardous waste labels**

2. **MITIGATION** (reduce the hazard) - Describe what is done to lessen the harm or the damage to person(s), property, or the environment, and prevent what has occurred from getting worse or spreading. What is your immediate response to a leak, spill, fire, explosion, or airborne release at your business?

**All Los Angeles City School personnel receive annual training on chemical safety. In addition, specific classes of employees receive additional training on chemical use and safety. At least once a year the schools are inspected by a School Safety Officer and chemical supplies are inspected. Outdated and unauthorized chemicals are removed.**

3. **ABATEMENT** (remove the hazard) - Describe what you would do to stop and remove the hazard. How do you handle the complete process of stopping a release, cleaning up, and disposing of released materials at your facility?

**All Los Angeles City Schools follow specific directions found in Safe School Plan, Volume 2 - Emergency Procedures. If a substance is released the students are evacuated to a safe zone, the release area is isolated and access is restricted. The School will call the Office of Environmental Health and Safety and their Emergency Reponse Team will work with local responders and district contractors to abate the condition.**

# Unified Program (UP) Form
# CONSOLIDATED CONTINGENCY PLAN

## SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

### IV. Emergency Equipment

22 CCR, Section 66265.52(e) [as referenced by Section 66262.34(a)(3)] requires that emergency equipment at the facility be listed. Completion of the following Emergency Equipment Inventory Table meets this requirement.

| 1. Equipment Category | 2. Equipment Type | 3. Location * | 4. Description** |
|---|---|---|---|
| Personal Protective, Equipment, Safety Equipment, and First Aid Equipment | ☐ Cartridge Respirators | | |
| | ☐ Chemical Monitoring Equipment *(describe)* | | |
| | ☑ Chemical Protective Aprons/Coats | [redacted] | Rubberized & vinyl plastic (ER Bin, Science labs) |
| | ☐ Chemical Protective Boots | | |
| | ☑ Chemical Protective Gloves | | Neoprene & Latex (ER Bin, Science labs) |
| | ☐ Chemical Protective Suits *(describe)* | | |
| | ☑ Face Shields | | Full face shield clear acetate (ER Bin) |
| | ☑ First Aid Kits/Stations *(describe)* | | Standard (ER Bin, Nurse office) |
| | ☑ Hard Hats | | Plastic (Emergency Bin) |
| | ☐ Plumbed Eye Wash Stations | | |
| | ☑ Portable Eye Wash Kits *(i.e. bottle type)* | | Eyesaline bottles (ER Bin) |
| | ☐ Respirator Cartridges *(describe)* | | |
| | ☑ Safety Glasses/Splash Goggles | | Standard vented goggles (ER Bin, Science labs) |
| | ☑ Safety Showers | | Science First floor #150 |
| | ☐ Self-Contained Breathing Apparatuses (SCBA) | | |
| | ☑ Other *(describe)* | | Generator |
| Fire Extinguishing Systems | ☑ Automatic Fire Sprinkler Systems | | Only in main buildings not in bungalous |
| | ☑ Fire Alarm Boxes/Stations | | Standard |
| | ☑ Fire Extinguisher Systems *(describe)* | | Standard |
| | ☐ Other *(describe)* | | |
| Spill Control Equipment and Decontamination Equipment | ☑ Absorbents (describe) | | Sorb-ALL-60(PlantMgr);abs.chem.pad(labs) |
| | ☐ Berms/Dikes (describe) | | |
| | ☐ Decontamination Equipment (describe) | | |
| | ☐ Emergency Tanks (describe) | | |
| | ☑ Exhaust Hoods | | Fume hoods (Science labs) |
| | ☐ Gas Cylinders Leak Repair Kits (describe) | | |
| | ☐ Neutralizers (describe) | | |
| | ☐ Overpack Drums | | |
| | ☐ Sumps (describe) | | |
| | ☐ Other (describe) | | |
| Communications and Alarm Systems | ☐ Chemical Alarms (describe) | | |
| | ☑ Intercoms/ PA Systems | | |
| | ☑ Portable Radios | | |
| | ☑ Telephones | | |
| | ☐ Underground Tank Leak Detection Monitors | | |
| | ☐ Other (describe) | | |
| Additional Equipment (Use Additional Pages if Needed.) | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**Use the Location Codes (LC) from the Site Map(s) prepared for your Contingency Plan.*

***Describe the equipment and its capabilities. If applicable, specify any testing/maintenance procedures/intervals. Attach additional pages, numbered appropriately, if needed.*

# Unified Program (UP) Form
# CONSOLIDATED CONTINGENCY PLAN

## SITE MAP

A site plan and storage map must be included with your Contingency Plan. For relatively small facilities, these documents may be combined into one drawing. Since these drawings are intended for use in emergency response situations, larger facilities *(generally those with complex and/or multiple buildings)* should provide an overall site plan and a separate storage map for each building/storage area. A blank Facility Site Map has been provided on the reverse side of this page. You may complete that page or attach any other drawing(s) which contain(s) the information required below.

1. **Site Plan:** This drawing shall contain, at a minimum, the following information:

   a. Site Orientation (north, south, etc.);
   b. Approximate scale *(e.g. "1 inch = 10 feet".)*;
   c. Date the map was drawn;
   d. Locations of all buildings and other structures;
   e. Parking lots and internal roads;
   f. Hazardous materials loading/unloading areas;
   g. Outside hazardous materials storage or use areas;
   h. Storm drain and sanitary sewer drain inlets;
   i. Wells for monitoring of underground tank systems;
   j. Primary and alternate evacuation routes, emergency exits, and primary and alternate staging areas;
   k. Adjacent property use;
   l. Locations and names of adjacent streets and alleys;
   m. Access and egress points and roads.

2. **Storage Map(s):** The map(s) shall contain, at a minimum, the following information:

   a. General purpose of each section/area within each building *(e.g. "Office Area", "Manufacturing Area", etc.)*;
   b. Location of each hazardous material/waste storage, dispensing, use, or handling area *(e.g. individual underground tanks, aboveground tanks, storage rooms, paint booths, etc.)*. Each area shall be identified by a unique location code number, letter, or name *(e.g. "1", "2", "3"; "A", "B", "C", etc.)*;
   c. Entrances to and exits from each building and hazardous material/waste room/area;
   d. Location of each utility emergency shut-off point *(i.e. gas, water, electric.)*;
   e. Location of each monitoring system control panel *(e.g. underground tank monitoring, toxic gas monitoring, etc.)*.

3. **Map Legend**

| Item and/or Description | Location Code (LC) |
|---|---|
| GAS SHUT OFF | A10, F6, D5, F10, G5 |
| WATER SHUT OFF | E6 (main), E9, E12, C7, B9 |
| ELECTRICAL SHUT OFF | D6, F11 |
| FIRE DEPARTMENT CONNECTION | D12, A7 |
| FIRE HYDRANTS | F1,G1,D12,H12 |
| FUEL BUNKER | C8 |
| PAINT STORAGE BIN | B8 |
| EMERGENCY BIN | G9 |
| PLANT MANAGER STORAGE AREA | B9 |
| FIRE SPLINKERS SHUT OFF | D12, D10, D9 |
| | |
| | |
| | |
| | |
| | |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR 2012 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204 **C-8**

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Gasoline**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Gasoline** 207

EHS* ☐ Yes ☑ No 208

CAS# **8006-61-9** 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) **3** 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☑ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **55 gallon** 215

FED HAZARD CATEGORIES (Check all that apply) ☑ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| **55** | **110** | **N/A** | **N/A** |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: **365** 222

STORAGE CONTAINER [redacted]
☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ h. SILO ☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| **12** 226 | **Toluene** 27 | ☐ Yes ☑ No 228 | **108-88-3** 229 |
| **11** 230 | **Xylene** 31 | ☐ Yes ☑ No 232 | **1330-20-7** 233 |
| **5** 234 | **Benzene** 35 | ☐ Yes ☑ No 236 | **71-43-2** 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

**If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.**

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | DATE RECEIVED | REVIEWED BY |
|---|---|---|

| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |
|---|---|---|---|---|---|---|

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR 2012 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204 **C-8**

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Diesel Fuel**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Diesel Fuel** 207

EHS* ☐ Yes ☑ No 208

CAS# **437986-25-09** 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) **3** 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☑ a. PURE ☐ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **55 gallon** 215

FED HAZARD CATEGORIES (Check all that apply) ☑ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 30 | 55 | N/A | N/A |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: **365** 222

STORAGE CONTAINER [redacted]
☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | **Diesel** 27 | ☐ Yes ☑ No 228 | **437986-25-09** 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | DATE RECEIVED | REVIEWED BY |
|---|---|---|

| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |
|---|---|---|---|---|---|---|

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR **2012** 200 | Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204 **B8**

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Water base Paint**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Paint** 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☑ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **5 Gallons** 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 100 | 150 | NA | NA |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: **365** 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 1 226 | **Ethylene glycol** 27 | ☐ Yes ☑ No 228 | **107-21-1** 229 |
| 230 | 31 | ☐ Yes ☑ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

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|---|---|---|

| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |
|---|---|---|---|---|---|---|

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR 2012 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204 **B9**

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Super Polymer 85 - Maintex**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Floor wax** 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☑ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **5-gallon** 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 90 | 150 | NA | NA |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 222 **365**

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ l. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| <8 226 | Glycol Ether DE 27 | ☐ Yes ☑ No 228 | 111-90-0 229 |
| <3 230 | Tributoxymethyl Phosphate 31 | ☐ Yes ☑ No 232 | 78-51-3 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☑ DELETE ☐ REVISE REPORTING YEAR **2012** 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204 **A-9**

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Used oil**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Used oil** 207

EHS* ☐ Yes ☑ No 208

CAS# **na** 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **55-gallon** 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 0 | 0 | 0 | 221 |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 0 222

STORAGE CONTAINER [redacted]
☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ h. SILO ☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☐ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☐ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 226 | 27 | ☐ Yes ☐ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

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| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |
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# UNIFIED PROGRAM (UP) FORM
## HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION
(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR 2012 200 Page of

### I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203: See Page 18

GRID# (optional) 204: B9

### II. CHEMICAL INFORMATION

CHEMICAL NAME 205: Contender finish (Part A&B)-Hillyard

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207: Gym finishing

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☑ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 5-gallon 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 45 | 100 | NA | NA |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 365 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☑ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 9-14 226 | Propylene glycol monomethyl ether 1 (Part A) 27 | ☐ Yes ☑ No 228 | 107-98-2 229 |
| <1 230 | Aminated acrylic polymer-chloride@bromide salt (A) 31 | ☐ Yes ☑ No 232 | 103051-70-3 233 |
| 4-8 234 | Gamma-butyrolactone-1 (Part B) 35 | ☐ Yes ☑ No 236 | 96-48-0 237 |
| <1 238 | Reaction products Epichlorohydrin&Bisphenol (B) 39 | ☐ Yes ☑ No 240 | 25085-99-9 241 |
| 1-5 242 | Benzyl alcohol -2 (Part B) 43 | ☐ Yes ☑ No 244 | 100-51-6 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

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# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☑ DELETE ☐ REVISE REPORTING YEAR 2012 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Waste Asbestos**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Waste Asbestos** 207

EHS* ☐ Yes ☑ No 208

CAS# na 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☑ a. SOLID ☐ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **40 cubic yard roll-off bin** 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 0 | 0 | 0 | 151 |

UNITS* (Check one item only) ☐ a. GALLONS ☑ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 0 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☐ B. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM
☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO
☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☐ i. CYLINDER
☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOE BIN ☐ p. TANK WAGON
[redacted] 223

STORAGE PRESSURE ☐ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☐ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 226 | 27 | ☐ Yes ☐ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

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# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR **2012** 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204 **B9**

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**XS-100 Stripper**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Floor stripper Gorm** 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☑ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **1 gallon** 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| **25 gallons** | **55 gallons** | **NA** | **NA** |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: **365** 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 2 226 | **2-Butoxyethanol** 27 | ☐ Yes ☑ No 228 | **111-76-2** 229 |
| 1 230 | **Sodium hydroxide** 31 | ☐ Yes ☑ No 232 | **1310-73-2** 233 |
| 3 234 | **Monoethanolamine** 35 | ☐ Yes ☑ No 236 | **141-43-5** 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

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# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR **2012** 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Spent photo chemical containing silver**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Spent fixer / developer** 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **15 gallons** 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 60 | 120 | 120 | 541 |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: **60** 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | **Spent photo chemical containing silver** 27 | ☐ Yes ☑ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

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# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☑ DELETE ☐ REVISE REPORTING YEAR 2012 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204 **D11**

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Chemical waste**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Chemical waste** 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **5 gallons** 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 0 | 0 | 0 | |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: **0** 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☐ B. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM
☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO
☐ I. FIBER DRUM ☐ j. BAG ☐ k. BOX ☐ i. CYLINDER
☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOE BIN ☐ p. TANK WAGON
[redacted] 223

STORAGE PRESSURE ☐ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☐ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 226 | 27 | ☐ Yes ☐ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
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| OFFICIAL USE ONLY | | DATE RECEIVED | | | REVIEWED BY | |
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# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR 2012 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Spent fluorescent lights**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Spent fluorescent lights** 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☑ a. SOLID ☐ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **0.5 cubic yards** 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 114 | 228 | 228 | N/A |

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☑ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: **60** 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM
☐ B. UNDERGROUND TANK ☐ f. CAN
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY
☐ d. STEEL DRUM ☐ h. SILO
[redacted]
☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ o. TOE BIN
☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Spent fluorescent lights 27 | ☐ Yes ☐ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | DATE RECEIVED | REVIEWED BY |
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# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☑ DELETE ☐ REVISE REPORTING YEAR 2012 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Non-RCRA hazardous waste solid**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Oily rags and used absorbent** 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☑ a. SOLID ☐ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **55 gallons** 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 0 | 0 | 0 | 223/352 |

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 0 222

STORAGE CONTAINER [redacted]
☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ h. SILO ☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☐ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☐ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 226 | 27 | ☐ Yes ☐ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☑ DELETE ☐ REVISE REPORTING YEAR 2012 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Clarifier waste**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Clarifier waste** 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **2000 gallons** 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 0 | 0 | 0 | 223 |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 0 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☐ B. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM
☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO
☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☐ i. CYLINDER
☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOE BIN ☐ p. TANK WAGON
[redacted] 223

STORAGE PRESSURE ☐ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☐ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 226 | 27 | ☐ Yes ☐ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | DATE RECEIVED | REVIEWED BY |
|---|---|---|

| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |
|---|---|---|---|---|---|---|

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☑ DELETE ☐ REVISE REPORTING YEAR 2012 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Waste formaldehyde/specimens**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Waste formaldehyde/specimens** 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **20 gallons** 215

FED HAZARD CATEGORIES (Check all that apply) ☑ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 0 | 0 | 0 | 331 |

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☑ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 0 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 226 | 27 | ☐ Yes ☐ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☑ DELETE ☐ REVISE REPORTING YEAR **2012** 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Waste flammable liquid**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Waste flammable liquid** 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **55 gallons** 215

FED HAZARD CATEGORIES (Check all that apply) ☑ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 0 | 0 | 0 | 331 |

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☑ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 0 222

STORAGE CONTAINER [redacted]
☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ h. SILO ☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☐ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☐ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 226 | 27 | ☐ Yes ☐ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☑ DELETE ☐ REVISE REPORTING YEAR 2012 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Waste caustic alkali (lab pack)**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Waste caustic alkali (lab pack)** 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **20 gallons** 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 0 | 0 | 0 | 551 |

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☑ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 0 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☐ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☐ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 226 | 27 | ☐ Yes ☐ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☑ DELETE ☐ REVISE REPORTING YEAR 2012 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Waste flammable solid**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Waste flammable solid** 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☑ a. SOLID ☐ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **55 gallons** 215

FED HAZARD CATEGORIES (Check all that apply) ☑ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 0 | 0 | 0 | 352 |

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☑ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 0 222

STORAGE CONTAINER [redacted]
☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ h. SILO ☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☐ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☐ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 226 | 27 | ☐ Yes ☐ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS WASTE GENERATOR

PAGE OF

| BUSINESS NAME: San Pedro High School | | |
|---|---|---|
| FACILITY ID # F A 0 0 0 2 2 4 1 | NO. OF EMPLOYEES: 33b 5 | EPA ID # CAD982022642 |

## I. TYPE OF GENERATOR

PLEASE CHECK THE FOLLOWING BOXES THAT APPLY

| | RCRA GENERATOR (FEDERAL WASTE) | NON -RCRA GENERATOR (CALIFORNIA WASTE ONLY) |
|---|---|---|
| LARGE QUANTITY GENERATOR (>1000 KG HAZARDOUS WASTE PER MONTH) | ☐ | ☐ |
| SMALL QUANTITY GENERATOR (>100 KG BUT <1000 KG HAZARDOUS WASTE PER MONTH) | ☑ | ☐ |
| CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (< 100 KG HAZARDOUS WASTE PER MONTH) | ☐ | ☐ |

## II. WASTE STREAM IDENTIFICATION

PLEASE COMPLETE THE TABLE BELOW. SEE INSTRUCTIONS FOR CODES AND EXPLANATION.

| PROCESS | WASTE DESCRIPTION | WASTE ID | AMOUNT PER YEAR | DISPOSAL METHOD | STORAGE METHOD |
|---|---|---|---|---|---|
| Maintenance | Light bulbs | NA | 228 lbs. | Recycling | |
| Film Processing | Spent photo chemical containing sil | 541 | 120 | Recycling | |
| | | | | | |
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*I certify that the information provided herein is true and accurate to the best of my knowledge.*

| OWNER/OPERATOR NAME Jeanette Stevens | OWNER/OPERATOR TITLE Principal |
|---|---|
| OWNER/OPERATOR SIGNATURE | DATE 2/8/2012 |

| OFFICIAL USE ONLY | DATE RECEIVED | REVIEWED BY | |
|---|---|---|---|
| CUPA | PA | DISTRICT | INSPECTOR |

**City of Los Angeles Fire Department**
Fire Prevention Bureau – Technical Section
200 N. Main Street, Room 1780
Los Angeles, CA 90012

# ANNUAL INVENTORY UPDATE

Facility ID: FA0002241

LAUSD - SAN PEDRO HIGH SCHOOL
333 S BEAUDRY AVE., 27TH FL
LOS ANGELES, CA 90017

LOS ANGELES UNIFIED SCHOOL DIS
1001 W 15TH ST
SAN PEDRO, CA 90731

Date last business plan submitted: 2/8/2012

**Annual Inventory Update (choose one method):**

☐ **Modify existing business information and inventory** (see reverse side of this form) **OR**

☐ **Submit new inventory** (must complete business information and chemical inventory forms) **OR**

☒ **Complete Certification Statement 9** (below) stating that the inventory submitted within the last year is complete, accurate and current.

**The Certification Statement can only be used if all of the following conditions apply:**

1. Business has previously filed the hazardous materials inventory report
2. Company official signs **Certification Statement** and attests to:
   a. Most recently submitted inventory is complete, accurate and up to date
   b. No change in quantity of reportable hazardous materials is accurate and up to date
   c. All hazardous materials are listed in that inventory
3. Business is not subject to EPCRA (Emergency Planning and Community Right to Know Act) reporting requirements

**CERTIFICATION STATEMENT:**

I certify that I am the business owner or officially designated representative of the business listed at the top of this form.

I certify that the information contained in the hazardous materials inventory most recently submitted to the Los Angeles Fire Department CUPA is complete, accurate, and up to date.

There has been no change in the quantity of hazardous materials reported in the most recently submitted inventory.

No hazardous materials subject to inventory requirements are being handled that are not listed on the most recently submitted inventory.

Signature

Date 2/9/2012

Title

**By MARCH 1, 2012, please return to:**

*City of Los Angeles Fire Department*
Fire Prevention Bureau - Technical Section
200 N. Main Street, Room 1780
Los Angeles, CA 90012

*California Health and Safety Code, Chapter 6.95 requires all handlers of hazardous materials to annually update their hazardous material inventory with the local administering agency on or before March 1. The City of Los Angeles Fire Department, as that agency, processes and maintains business emergency response plans and inventories for businesses within the City.*

**Only list changes to your existing inventory here (you may attach additional pages if necessary)**

| Chemical Name/CAS # | Maximum daily amount | Storage Container | Physical State: gal, lbs, cubic ft. | Storage Location | Inactive Y or N | Effective date |
|---|---|---|---|---|---|---|
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**Please list any Business/ Owner changes. (If you have further information to submit, you may attach additional pages)**
**A copy of your business license is required when reporting a change of ownership.**

| Owner Name | Business name | Mailing address | Other | Effective Date |
|---|---|---|---|---|
| | | | | |
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For more information on the CUPA Program, please visit our website:
**http://www.lafd.org/prevention** or **call (213) 978-3680.**

Certmail, #91 7108 2133 3938 7679 8106

# Los Angeles Unified School District

## Office of Environmental Health and Safety

RAMON C. CORTINES
*Superintendent of Schools*

WENDY MACY
*Chief Operating Officer*

JOHN STERRITT
*Director*

FA2241

~~FA0000446~~

December 06, 2010

Los Angeles County Fire Department
Health Hazardous Materials Division
Data Operations Unit
5825 Rickenbacker Road
Commerce, CA 90040

**SUBJECT: SUBMITTAL OF CONSOLIDATED CONTINGENCY PLAN FOR SAN PEDRO HIGH SCHOOL**

The Los Angeles Unified School District would like to submit a Consolidated Contingency Plan for the following site:

Facility Name: San Pedro High School
Street Address: 1001 West 15th Street
City, State Zip: San Pedro, CA 90731

This plan is for the reporting year 2010. If you have any questions, please contact me at (213) 241-3199.

Sincerely,

Graciela Merchan

c. Soe Aung, Environmental Health Supervisor
Jeanette Stevens, San Pedro High School

Enclosure(s):

Received
JAN 25 2011
HHMD-DataOps

Certmail # 91 7108 2133 3938 7879 8106

# UNIFIED PROGRAM (UP) FORM
# BUSINESS ACTIVITIES



## I. FACILITY IDENTIFICATION

| FACILITY ID # | F | A | | 0 | 0 | 0 | | 2 | 2 | 4 | 1 | | | 1 | EPA ID # (Hazardous Waste Only) CAD982022642 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

BUSINESS NAME (Same as Facility Name of DBA-Doing Business As) 3
**San Pedro High School**

## II. ACTIVITIES DECLARATION

**NOTE: If you check YES to any part of this list, please submit the Business Owner/Operator Identification page.**

| Does your facility... | | If Yes, please complete these pages of the UP FORM.... |
|---|---|---|
| **A. HAZARDOUS MATERIALS** | | |
| Have on site (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70? | ☑ Yes ☐ No 4 | →HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION<br>→CONSOLIDATED CONTINGENCY PLAN (Section I and Site Map(s))<br>→TRAINING PLAN |
| **B. UNDERGROUND STORAGE TANKS (USTs)** | | |
| 1. Own or operate underground storage tanks? | ☐ Yes ☑ No 5 | →UST FACILITY<br>→UST TANK (one page per tank) |
| 2. Intend to upgrade existing or install new USTs? | ☐ Yes ☑ No 6 | →UST FACILITY<br>→UST TANK (one per tank)<br>→UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank) |
| 3. Need to report closing a UST? | ☐ Yes ☑ No 7 | →UST TANK (closure portion –one page per tank) |
| **C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs)**<br>Own or operate ASTs above these thresholds:<br>—any tank capacity is greater than 660 gallons, or<br>—the total capacity for the facility is greater than 1,320 gallons? | ☐ Yes ☑ No 8 | NO FORM REQUIRED TO CUPAs |
| **D. HAZARDOUS WASTE** | | |
| 1. Generate hazardous waste? | ☑ Yes ☐ No 9 | →EPA ID NUMBER – provide at the top of this page.<br>→As a generator, answer YES to Item E2b and complete Waste Generator Form. |
| 2. Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)? | ☐ Yes ☑ No 10 | →RECYCLABLE MATERIALS REPORT |
| 3. Treat hazardous waste on site? | ☐ Yes ☑ No 11 | →ONSITE HAZARDOUS WASTE TREATMENT – FACILITY<br>→ONSITE HAZARDOUS WASTE TREATMENT – UNIT (one page per unit) |
| 4. Treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)? | ☐ Yes ☑ No 12 | →CERTIFICATION OF FINANCIAL ASSURANCE |
| 5. Consolidate hazardous waste generated at a remote site? | ☐ Yes ☑ No 13 | →REMOTE WASTE / CONSOLIDATION SITE ANNUAL NOTIFICATION |
| 6. Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite? | ☐ Yes ☑ No 14 | →HAZARDOUS WASTE TANK CLOSURE CERTIFICATION |
| **E. LOCAL REQUIREMENTS** | | 15 |
| **1. REGULATED SUBSTANCES** | | |
| Have Regulated Substances (RS) stored on site at greater than the threshold quantities established by the California Accidental Release Program (Cal ARP) ? | ☐ Yes ☑ No 15a | In addition to Hazardous Materials requirements, complete:<br>→Regulated Substance Registration<br>→Risk Management Plan (when required) |
| **2. OTHER REQUIREMENTS** | | |
| a. Have hazardous materials stored on site at or above a threshold amount established by a CUPA's or PA's local ordinance? | ☐ Yes ☑ No 15b | →Consult local CUPA or PA for added reporting requirements. |
| b. Required by a CUPA or PA to provide other information? | ☑ Yes ☐ No 15c | →Waste Generator Form (LA County) |

Received
JAN 25 2011
HHMD-DataOps

| OFFICIAL USE ONLY | UP Form | HW | HM | ARP | AST | UST | TP | CUPA | PA |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

# UNIFIED PROGRAM (UP) FORM
## BUSINESS OWNER/OPERATOR IDENTIFICATION

☐ NEW BUSINESS ☐ OUT OF BUSINESS ☑ REVISE/UPDATE (EFFECTIVE ) PAGE OF

### I. IDENTIFICATION

| | | | |
|---|---|---|---|
| FACILITY ID# FA 0002241 [1] | BEGINNING DATE [100] 1/1/2010 | ENDING DATE [101] 12/31/2010 | |
| BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) [3] San Pedro High School | | BUSINESS PHONE [102] (310) 241-5800 | |
| BUSINESS SITE ADDRESS [103] 1001 West 15th Street | | | |
| CITY San Pedro [104] | CA | ZIP CODE 90731 [105] | |
| DUN & BRADSTREET N/A [106] | | SIC CODE (4 digit #) 8211 [107] | |
| COUNTY Los Angeles [108] | | UNINCORPORATED No [133a.] | |
| BUSINESS OPERATOR NAME [109] Los Angeles Unified School District | | BUSINESS OPERATOR PHONE [110] (213) 241-3199 | |

### II. BUSINESS OWNER

| | | |
|---|---|---|
| OWNER NAME [111] Los Angeles Unified School District | | OWNER PHONE [112] (213) 241-3199 |
| OWNER MAILING ADDRESS [113] 333 S. Beaudry Avenue, 27th Floor | | |
| CITY [114] Los Angeles | STATE [115] CA | ZIP CODE [116] 90017 |

### III. ENVIRONMENTAL CONTACT

| | | |
|---|---|---|
| CONTACT NAME [117] Soe Aung | | CONTACT PHONE [118] (213) 241-3199 |
| CONTACT MAILING ADDRESS [119] 333 S. Beaudry Avenue, 27th Floor | | |
| CITY Los Angeles [120] | STATE CA [121] | ZIP CODE 90017 [122] |

### IV. EMERGENCY CONTACTS

| -PRIMARY- | -SECONDARY- |
|---|---|
| NAME [123] Jeanette Stevens | NAME [128] Aadil Naazir |
| TITLE [124] Principal | TITLE [129] Assistant Principal |
| BUSINESS PHONE [125] (310) 241-5802 | BUSINESS PHONE [130] (310) 241-5802 |
| 24-HOUR PHONE [126] [redacted] | 24-HOUR PHONE [131] [redacted] |
| PAGER # [127] | PAGER # [132] |

### V. ADDITIONAL LOCALLY COLLECTED INFORMATION [133]

| | |
|---|---|
| NUMBER OF EMPLOYEES 5 [133b] | FEDERAL TAX IDENTIFICATION NUMBER [redacted] [133c] |

### MAILING/ BILLING INFORMATION

| ADDRESS [133d] | CITY [133e] | STATE [133f] | ZIP CODE [133g] |
|---|---|---|---|
| 333 S. Beaudry Avenue, 27th Floor | Los Angeles | CA | 90017 |

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

| SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE | DATE [134] | NAME OF DOCUMENT PREPARER [135] |
|---|---|---|
| [signature] | 11/22/2010 | Graciela Merchan |
| NAME OF SIGNER (print) [136] Jeanette Stevens | TITLE OF SIGNER [137] Principal | |

| OFFICIAL USE ONLY | UP Form | HW | HM | ARP | AST | UST | TP | CUPA | PA |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| INSPECTOR | DISTRICT | DATE OF INSPECTION | DIVISION | BATTALION | STATION |
|---|---|---|---|---|---|
| | | | | | |

# Unified Program (UP) Form
# CONSOLIDATED CONTINGENCY PLAN

## COVER PAGE

| FACILITY IDENTIFICATION | | | | | |
|---|---|---|---|---|---|
| BUSINESS NAME<br>San Pedro High School | | | 3 | FACILITY ID # 1<br>FA0002241 | |
| SITE ADDRESS<br>1001 West 15th Street | 103 | CITY<br>San Pedro | 104 | ZIP CODE<br>90731 | 105 |

The Consolidated Contingency Plan provides businesses a format to comply with the emergency planning requirements of the following three written hazardous materials emergency response plans required in California:

- ◁ Hazardous Materials Business Plan (HSC Chapter 6.95 Section 25504 (b) and 19 CCR Sections 2729-2732),
- ◁ Hazardous Waste Generator Contingency Plan (22 CCR Section 66264.52), and,
- ◁ Underground Storage Tank Emergency Response Plan and Monitoring Program (23 CCR Sections 2632 and 2641).

This format is designed to reduce duplication in the preparation and use of emergency response plans at the same facility, and to improve the coordination between facility response personnel and local, state and federal emergency responders during an emergency. Use the chart below to determine which sections of the Consolidated Contingency Plan need to be completed for your facility. If you are unsure as to which programs your facility is subject to, refer to the Business Activities Page.

| PROGRAMS | SECTION(S) TO BE COMPLETED |
|---|---|
| Hazardous Materials Business Plan (HMBP) | Cover Page, Section I, and Site Map(s) |
| Hazardous Waste Generator (HWG) | Cover Page, Section I, and Site Map(s) |
| Underground Storage Tank (UST) | Cover Page, Sections I and II, and Site Map(s) |
| HMBP, HWG, UST | Cover Page, Sections I and II, and Site Map(s) |

**A copy of the plan shall be submitted to your local CUPA and at least one copy of the plan shall be maintained at the facility for use in the event of an emergency and for inspection by the local agency.** Describe below where a copy of your Contingency Plan, including the hazardous material inventories and Site Map(s), is located at your business:

Main Office

| PLAN CERTIFICATION | |
|---|---|
| *I certify under penalty of law that I have personally examined and I am familiar with the information provided by this plan and to the best of my knowledge the information is accurate, complete, and true.* Received JAN 25 2011 HHMD-DataOps | |
| Printed Name of Owner/ Operator<br>Jeanette Stevens | Title of Owner/Operator<br>Principal |
| Signature of Owner/ Operator<br>Jeanette Stevens | Date<br>11/22/2010 |

We appreciate the effort of local businesses in completing these plans and will assist in every possible way. If you have any questions, please contact your local CUPA or PA.

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# Unified Program (UP) Form
# CONSOLIDATED CONTINGENCY PLAN

## SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

### I. FACILITY IDENTIFICATION

| | | | |
|---|---|---|---|
| BUSINESS NAME 3<br>San Pedro High School | | | FACILITY ID # 1<br>FA0002241 |
| SITE ADDRESS 103<br>1001 West 15th Street | CITY 104<br>San Pedro | | ZIP CODE 105<br>90731 |

### II. EMERGENCY CONTACTS

| PRIMARY | SECONDARY |
|---|---|
| NAME 123<br>Jeanette Stevens | NAME 128<br>Aadil Naazir |
| TITLE 124<br>Principal | TITLE 129<br>Assistant Principal |
| BUSINESS PHONE 125<br>(310) 241-5802 | BUSINESS PHONE 130<br>(310) 241-5802 |
| 24-HOUR PHONE 126<br>[redacted] | 24-HOUR PHONE 131<br>[redacted] |
| PAGER # 127 | PAGER # 132 |

### III. EMERGENCY RESPONSE PLANS AND PROCEDURES

#### A. Notifications

Your business is required by State Law to provide an immediate verbal report of any release or threatened release of a hazardous material to local fire emergency response personnel, this Unified Program Agency (CUPA or PA), and the Office of Emergency Services. If you have a release or threatened release of hazardous materials, immediately call:

FIRE/PARAMEDICS/POLICE/SHERIFF
PHONE: 911

**AFTER** the local emergency response personnel are notified, you shall then notify this Unified Program Agency and the Office of Emergency Services.

Local Unified Program Agency: (323) 890-4317
State Office of Emergency Service: (800) 852-7550 or (916) 262-1621
National Response Center: (800) 424-8802

Information to be provided during Notification:

- ◁ Your Name and the Telephone Number from where you are calling.
- ◁ Exact address of the release or threatened release.
- ◁ Date, time, cause, and type of incident (e.g. fire, air release, spill etc.)
- ◁ Material and quantity of the release, to the extent known.
- ◁ Current condition of the facility.
- ◁ Extent of injuries, if any.
- ◁ Possible hazards to public health and/ or the environment outside of the facility.

#### B. Emergency Medical Facility

List the local emergency medical facility that will be used by your business in the event of an accident or injury caused by a release or threatened release of hazardous material

| | |
|---|---|
| HOSPITAL/CLINIC:<br>Little Company of Mary - San Pedro | PHONE NO:<br>(310) 832-3311 |
| ADDRESS:<br>1300 W. 7th Street | |
| CITY:<br>San Pedro | ZIP CODE:<br>90732 |

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# Unified Program (UP) Form
# CONSOLIDATED CONTINGENCY PLAN

## SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

### C. Private Emergency Response

**DOES YOUR BUSINESS HAVE A PRIVATE ON-SITE EMERGENCY RESPONSE TEAM?** ☐ Yes ☑ No

If yes, provide an attachment that describes what policies and procedures your business will follow to notify your on-site emergency response team in the event of a release or threatened release of hazardous materials.

**CLEANUP/DISPOSAL CONTRACTOR**

List the contractor that will provide cleanup services in the event of a release.

| NAME OF CONTRACTOR: | PHONE NO: |
|---|---|
| **Ecology Control Industries** | **(310) 354-9999** |
| ADDRESS: **19500 Normandie Avenue** | |
| CITY: **Torrance, CA** | ZIP CODE: **90501** |

### D. Arrangements With Emergency Responders

If you have made special (i.e. contractual) arrangements with any police department, fire department, hospital, contractor, or State or local emergency response team to coordinate emergency services, describe those arrangements on the lines below:

**All LAUSD schools are served by the School District Police Department. In addition, they are supported by the District's Office of Environmental Health and Safety that has an Emergency Response team that is trained and licensed to oversee hazardous material clean-up.**

### E. Evacuation Plan

1. The following alarm signal(s) will be used to begin evacuation of the facility *(check all which apply)*:

☑ Verbal ☑ Telephone *(including cellular)* ☑ Alarm System ☑ Public Address System ☑ Intercom
☐ Pagers ☑ Portable Radio ☐ Other *(specify):*

2. ☑ Evacuation map is prominently displayed throughout the facility. **Yes. In the Safe School Plan**

3. ☑ Individual(s) responsible for coordinating evacuation including spreading the alarm and confirming the business has been evacuated: **All Administrative Staff, Certificated and Classified Staff - See Safe School Plan, Volume 2**

### F. Earthquake Vulnerability

Identify areas of the facility where releases could occur or would require immediate inspection or isolation because of the vulnerability to earthquake related ground motion.

☑ Hazardous Waste/ Hazardous Materials Storage Areas ☐ Production Floor ☐ Process Lines
☐ Bench/ Lab ☐ Waste Treatment ☐ Other:

Identify mechanical systems where releases could occur or would require immediate inspection or isolation because of the vulnerability to earthquake related ground motion.

☑ Utilities ☑ Sprinkler Systems ☑ Cabinets ☑ Shelves
☑ Racks ☐ Pressure Vessels ☐ Gas Cylinders ☐ Tanks
☐ Process Piping ☑ Shutoff Valves ☐ Other:

## SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

### G. Emergency Procedures

Briefly describe your business standard operating procedures in the event of a release or threatened release of hazardous materials:

1. **PREVENTION** (prevent the hazard) - Describe the kinds of hazards associated with the hazardous materials present at your facility. What actions would your business take to prevent these hazards from occurring? You may include a discussion of safety and storage procedures.

**All Los Angeles City schools are limited to a small number of approved chemicals that are allowed on campus. Chemistry classes are encouraged to use "Micro Chemistry" to reduce the quantity of chemicals being used and stored on campus. Schools are not allowed to store or use any kinds of herbicides or pesticides for weed or pest management.**

**Gasoline drums shall be stored inside a locked flammable liquid storage room (i.e. gasoline bunker or block house) and shall be posted with 'No Smoking' and 'Flammable Liquid' signs outside the room. Gasoline drums shall be grounded with wire at all times. Diesel drums shall also be kept inside the flammable liquid storage room. 'No Smoking' and ' Combustible Liquid' signs shall be posted for diesel drums. Welding process shall not be conducted nearby this room. It is strongly suggested to store minimal quantity and to use secondary containment system for these drums.**

**Compressed gas cylinders shall be chained at all times. A compressed gas sign shall be posted on the cylinder(s) or by the cylinder(s). Waste oil and waste anti-freeze drums shall be kept inside the secondary containment system and affixed with completed hazardous waste labels**

2. **MITIGATION** (reduce the hazard) - Describe what is done to lessen the harm or the damage to person(s), property, or the environment, and prevent what has occurred from getting worse or spreading. What is your immediate response to a leak, spill, fire, explosion, or airborne release at your business?

**All Los Angeles City School personnel receive annual training on chemical safety. In addition, specific classes of employees receive additional training on chemical use and safety. At least once a year the schools are inspected by a School Safety Officer and chemical supplies are inspected. Outdated and unauthorized chemicals are removed.**

3. **ABATEMENT** (remove the hazard) - Describe what you would do to stop and remove the hazard. How do you handle the complete process of stopping a release, cleaning up, and disposing of released materials at your facility?

**All Los Angeles City Schools follow specific directions found in Safe School Plan, Volume 2 - Emergency Procedures. If a substance is released the students are evacuated to a safe zone, the release area is isolated and access is restricted. The School will call the Office of Environmental Health and Safety and their Emergency Reponse Team will work with local responders and district contractors to abate the condition.**

## SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

### IV. Emergency Equipment

22 CCR, Section 66265.52(e) [as referenced by Section 66262.34(a)(3)] requires that emergency equipment at the facility be listed. Completion of the following Emergency Equipment Inventory Table meets this requirement.

| 1. Equipment Category | 2. Equipment Type | 3. Location * | 4. Description** |
|---|---|---|---|
| Personal Protective, Equipment, Safety Equipment, and First Aid Equipment | ☐ Cartridge Respirators | | |
| | ☐ Chemical Monitoring Equipment *(describe)* | | |
| | ☑ Chemical Protective Aprons/Coats | [redacted] | Rubberized & vinyl plastic (ER Bin, Science labs) |
| | ☐ Chemical Protective Boots | | |
| | ☑ Chemical Protective Gloves | | Neoprene & Latex (ER Bin, Science labs) |
| | ☐ Chemical Protective Suits *(describe)* | | |
| | ☑ Face Shields | | Full face shield clear acetate (ER Bin) |
| | ☑ First Aid Kits/Stations *(describe)* | | Standard (ER Bin, Nurse office) |
| | ☑ Hard Hats | | Plastic (Emergency Bin) |
| | ☐ Plumbed Eye Wash Stations | | |
| | ☑ Portable Eye Wash Kits *(i.e. bottle type)* | | Eyesaline bottles (ER Bin) |
| | ☐ Respirator Cartridges *(describe)* | | |
| | ☑ Safety Glasses/Splash Goggles | | Standard vented goggles (ER Bin, Science labs) |
| | ☑ Safety Showers | | Science First floor #150 |
| | ☐ Self-Contained Breathing Apparatuses (SCBA) | | |
| | ☑ Other *(describe)* | | Generator |
| Fire Extinguishing Systems | ☑ Automatic Fire Sptinkler Systems | | Only in main buildings not in bungalous |
| | ☑ Fire Alarm Boxes/Stations | | Standard |
| | ☑ Fire Extinguisher Systems *(describe)* | | Standard |
| | ☐ Other *(describe)* | | |
| Spill Control Equipment and Decontamination Equipment | ☑ Absorbents (describe) | | Sorb-ALL-60(PlantMgr);abs.chem.pad(labs) |
| | ☐ Berms/Dikes (describe) | | |
| | ☐ Decontamination Equipment (describe) | | |
| | ☐ Emergency Tanks (describe) | | |
| | ☑ Exhaust Hoods | | Fume hoods (Science labs) |
| | ☐ Gas Cylinders Leak Repair Kits (describe) | | |
| | ☐ Neutralizers (describe) | | |
| | ☐ Overpack Drums | | |
| | ☐ Sumps (describe) | | |
| | ☐ Other (describe) | | |
| Communications and Alarm Systems | ☐ Chemical Alarms (describe) | | |
| | ☑ Intercoms/ PA Systems | | |
| | ☑ Portable Radios | | |
| | ☑ Telephones | | |
| | ☐ Underground Tank Leak Detection Monitors | | |
| | ☐ Other (describe) | | |
| Additional Equipment (Use Additional Pages if Needed.) | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**Use the Location Codes (LC) from the Site Map(s) prepared for your Contingency Plan.*

***Describe the equipment and its capabilities. If applicable, specify any testing/maintenance procedures/intervals. Attach additional pages, numbered appropriately, if needed.*

# Unified Program (UP) Form
# CONSOLIDATED CONTINGENCY PLAN

## SITE MAP

A site plan and storage map must be included with your Contingency Plan. For relatively small facilities, these documents may be combined into one drawing. Since these drawings are intended for use in emergency response situations, larger facilities *(generally those with complex and/or multiple buildings)* should provide an overall site plan and a separate storage map for each building/storage area. A blank Facility Site Map has been provided on the reverse side of this page. You may complete that page or attach any other drawing(s) which contain(s) the information required below.

1. **Site Plan:** This drawing shall contain, at a minimum, the following information:

   a. Site Orientation (north, south, etc.);
   b. Approximate scale *(e.g. "1 inch = 10 feet".)*;
   c. Date the map was drawn;
   d. Locations of all buildings and other structures;
   e. Parking lots and internal roads;
   f. Hazardous materials loading/unloading areas;
   g. Outside hazardous materials storage or use areas;
   h. Storm drain and sanitary sewer drain inlets;
   i. Wells for monitoring of underground tank systems;
   j. Primary and alternate evacuation routes, emergency exits, and primary and alternate staging areas;
   k. Adjacent property use;
   l. Locations and names of adjacent streets and alleys;
   m. Access and egress points and roads.

2. **Storage Map(s):** The map(s) shall contain, at a minimum, the following information:

   a. General purpose of each section/area within each building *(e.g. "Office Area", "Manufacturing Area", etc.)*;
   b. Location of each hazardous material/waste storage, dispensing, use, or handling area *(e.g. individual underground tanks, aboveground tanks, storage rooms, paint booths, etc.)*. Each area shall be identified by a unique location code number, letter, or name *(e.g. "1", "2", "3"; "A", "B", "C", etc.)*;
   c. Entrances to and exits from each building and hazardous material/waste room/area;
   d. Location of each utility emergency shut-off point *(i.e. gas, water, electric.)*;
   e. Location of each monitoring system control panel *(e.g. underground tank monitoring, toxic gas monitoring, etc.)*.

3. **Map Legend**

| Item and/or Description | Location Code (LC) |
|---|---|
| GAS SHUT OFF | |
| WATER SHUT OFF | |
| ELECTRICAL SHUT OFF | |
| FIRE DEPARTMENT CONNECTION | |
| FIRE HYDRANTS | |
| FUEL BUNKER | |
| PAINT STORAGE BIN | |
| EMERGENCY BIN | |
| PLANT MANAGER STORAGE AREA | |
| FIRE SPLINKERS SHUT OFF | |
| | |
| | |
| | |
| | |
| | |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR 2010 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203 See Page 18

GRID# (optional) 204 C-8

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Gasoline

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME Gasoline 207

EHS* ☐ Yes ☑ No 208

CAS# 8006-61-9 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 3 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☑ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 55 gallon 215

FED HAZARD CATEGORIES (Check all that apply) ☑ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 55 | 110 | N/A | N/A |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 365 222

STORAGE CONTAINER [redacted]
☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ h. SILO ☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 12 226 | Toluene 27 | ☐ Yes ☑ No 228 | 108-88-3 229 |
| 11 230 | Xylene 31 | ☐ Yes ☑ No 232 | 1330-20-7 233 |
| 5 234 | Benzene 35 | ☐ Yes ☑ No 236 | 71-43-2 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | DATE RECEIVED | REVIEWED BY |
|---|---|---|

| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |
|---|---|---|---|---|---|---|

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION
(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR 2010 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203: See Page 18

GRID# (optional) 204: C-8

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205: Diesel Fuel

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207: Diesel Fuel

EHS* ☐ Yes ☑ No 208

CAS# 209: 437986-25-09

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210: 3

HAZARDOUS MATERIAL TYPE (Check one item only) ☑ a. PURE ☐ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 215: 55 gallon

FED HAZARD CATEGORIES (Check all that apply) ☑ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 30 | 55 | N/A | N/A |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 222: 365

STORAGE CONTAINER [redacted]
☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Diesel 27 | ☐ Yes ☑ No 228 | 437986-25-09 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
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# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR 2010 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204 **B8**

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Water base Paint**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Paint** 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☑ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **5 Gallons** 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 100 | 150 | NA | NA |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: **365** 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ l. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 1 226 | Ethylene glycol 27 | ☐ Yes ☑ No 228 | 107-21-1 229 |
| 230 | 31 | ☐ Yes ☑ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | DATE RECEIVED | REVIEWED BY |
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# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION
(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR 2010 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204 **B9**

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Super Polymer 85 - Maintex**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207 **Floor wax**

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☑ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **5-gallon** 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 150 | 90 | NA | NA |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 222 **365**

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| <8 226 | Glycol Ether DE 27 | ☐ Yes ☑ No 228 | 111-90-0 229 |
| <3 230 | Tributoxymethyl Phosphate 31 | ☐ Yes ☑ No 232 | 78-51-3 233 |
| 234 | 35 | ☐ Yes ☐ No 238 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

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# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

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## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203: See Page 18

GRID# (optional) 204: A-9

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205: Used oil

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207: Used oil

EHS* ☐ Yes ☑ No 208

CAS# 209: na

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 215: 55-gallon

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 25 | 50 | 50 | 221 |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 222: 50

STORAGE CONTAINER [redacted]
☐ e. PLASTIC/NONMETALLIC DRUM ☐ l. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ h. SILO ☐ i. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Used oil 27 | ☐ Yes ☑ No 228 | na 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

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# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION
(one page per material per building or area)

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## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204 **B9**

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Contender finish (Part A&B)-Hillyard**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Gym finishing** 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☑ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **5-gallon** 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 45 | 100 | NA | NA |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 365 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☑ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 9-14 226 | Propylene glycol monomethyl ether 1 (Part A) 27 | ☐ Yes ☑ No 228 | 107-98-2 229 |
| <1 230 | Aminated acrylic polymer-chloride@bromide salt (A) 31 | ☐ Yes ☑ No 232 | 103051-70-3 233 |
| 4-8 234 | Gamma-butyrolactone-1 (Part B) 35 | ☐ Yes ☑ No 236 | 96-48-0 237 |
| <1 238 | Reaction products Epichlorohydrin&Bisphenol (B) 39 | ☐ Yes ☑ No 240 | 25085-99-9 241 |
| 1-5 242 | Benzyl alcohol -2 (Part B) 43 | ☐ Yes ☑ No 244 | 100-51-6 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | | REVIEWED BY | |
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# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR 2010 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Waste Asbestos**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Waste Asbestos** 207

EHS* ☐ Yes ☑ No 208

CAS# **na** 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☑ a. SOLID ☐ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **40 cubic yard** [redacted] 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 13 | 27 | 27 | 151 |

UNITS* (Check one item only) ☐ a. GALLONS ☑ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: **60** 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☐ B. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM
☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO
☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☐ i. CYLINDER
☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOE BIN ☐ p. TANK WAGON
[redacted]

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 223

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 224 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Waste Asbestos 27 | ☐ Yes ☑ No 228 | na 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | | DATE RECEIVED | | REVIEWED BY | |
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# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

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## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203: See Page 18

GRID# (optional) 204: B9

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205: XS-100 Stripper

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207: Floor stripper Gorm

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☑ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 1 gallon 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 25 gallons | 55 gallons | NA | NA |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 365 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 2 226 | 2-Butoxyethanol 27 | ☐ Yes ☑ No 228 | 111-76-2 229 |
| 1 230 | Sodium hydroxide 31 | ☐ Yes ☑ No 232 | 1310-73-2 233 |
| 3 234 | Monoethanolamine 35 | ☐ Yes ☑ No 236 | 141-43-5 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

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| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☑ DELETE ☐ REVISE REPORTING YEAR 2010 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Spent photo chemical containing silver**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Spent fixer / developer** 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **15 gallons** 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 0 | 0 | 0 | |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 0 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | **Spent photo chemical containing silver** 27 | ☐ Yes ☑ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | | REVIEWED BY | |
|---|---|---|---|---|---|---|
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# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☑ DELETE ☐ REVISE REPORTING YEAR 2010 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204 **D11**

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Chemical waste**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Chemical waste** 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **5 gallons** 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 0 | 0 | 0 | |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 0 222

STORAGE CONTAINER
- ☐ a. ABOVE GROUND TANK
- ☐ B. UNDERGROUND TANK
- ☐ c. TANK INSIDE BUILDING
- ☐ d. STEEL DRUM
- ☐ e. PLASTIC/NONMETALLIC DRUM
- ☐ f. CAN
- ☐ g. CARBOY
- ☐ h. SILO
- ☐ i. FIBER DRUM
- ☐ j. BAG
- ☐ k. BOX
- ☐ i. CYLINDER
- ☐ m. GLASS BOTTLE
- ☐ n. PLASTIC BOTTLE [redacted]
- ☐ o. TOE BIN
- ☐ p. TANK WAGON

223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Chemical waste 27 | ☐ Yes ☑ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

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|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☑ ADD ☐ DELETE ☐ REVISE REPORTING YEAR 2010 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203 See Page 18

GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Spent fluorescent lights

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME Spent fluorescent lights 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☑ a. SOLID ☐ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 0.5 cubic yards 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 114 | 228 | 228 | N/A |

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☑ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 60 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ B. UNDERGROUND TANK ☐ f. CAN ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ o. TOE BIN
☐ d. STEEL DRUM ☐ h. SILO ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Spent fluorescent lights 27 | ☐ Yes ☐ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
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# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

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## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203 See Page 18

GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Non-RCRA hazardous waste solid

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME Oily rags and used absorbent 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☑ a. SOLID ☐ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 55 gallons 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 160 | 320 | 320 | 223/352 |

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☑ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 60 222

STORAGE CONTAINER [redacted]
☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Non-RCRA hazardous waste solid 27 | ☐ Yes ☑ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
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# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION
(one page per material per building or area)

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## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203 See Page 18

GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Clarifier waste

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME Clarifier waste 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 2000 gallons 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 700 | 1400 | 1400 | 223 |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 60 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE
☐ B. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ d. STEEL DRUM ☐ h. SILO ☐ i. CYLINDER ☐ p. TANK WAGON
[redacted] 223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Clarifier waste 27 | ☐ Yes ☑ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

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# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

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## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203 See Page 18

GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Waste formaldehyde/specimens

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME Waste formaldehyde/specimens 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 20 gallons 215

FED HAZARD CATEGORIES (Check all that apply) ☑ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 170 | 340 | 340 | 331 |

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☑ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 60 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Waste formaldehyde/specimens 27 | ☐ Yes ☑ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | DATE RECEIVED | REVIEWED BY |
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# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

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## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203 See Page 18

GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME
Waste flammable liquid 205

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME Waste flammable liquid 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 55 gallons 215

FED HAZARD CATEGORIES (Check all that apply) ☑ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 408 | 815 | 815 | 331 |

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☑ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 60 222

STORAGE CONTAINER [redacted]
☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 223

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 224

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Waste flammable liquid 27 | ☐ Yes ☑ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

225

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 248

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☑ ADD ☐ DELETE ☐ REVISE REPORTING YEAR 2010 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1 MAP# (optional) 203 See Page 18 GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Waste caustic alkali (lab pack)

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME Waste caustic alkali (lab pack) 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12 CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 20 gallons 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 22 | 45 | 45 | 551 |

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☑ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 60 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Waste caustic alkali (lab pack) 27 | ☐ Yes ☑ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | | REVIEWED BY | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION
(one page per material per building or area)

☑ ADD ☐ DELETE ☐ REVISE REPORTING YEAR 2010 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203 See Page 18

GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Waste flammable solid

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME Waste flammable solid 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☑ a. SOLID ☐ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 55 gallons 215

FED HAZARD CATEGORIES (Check all that apply) ☑ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 100 | 200 | 200 | 352 |

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☑ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 60 222

STORAGE CONTAINER [redacted]
☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ h. SILO ☐ i. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Waste flammable solid 27 | ☐ Yes ☑ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | DATE RECEIVED | REVIEWED BY |
|---|---|---|

| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |
|---|---|---|---|---|---|---|

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS WASTE GENERATOR

PAGE OF

| BUSINESS NAME: San Pedro High School | | |
|---|---|---|
| FACILITY ID # F A 0 0 0 2 2 4 1 | NO. OF EMPLOYEES: 33b 5 | EPA ID # CAD982022642 |

## I. TYPE OF GENERATOR

PLEASE CHECK THE FOLLOWING BOXES THAT APPLY

| | RCRA GENERATOR (FEDERAL WASTE) | NON -RCRA GENERATOR (CALIFORNIA WASTE ONLY) |
|---|---|---|
| LARGE QUANTITY GENERATOR (>1000 KG HAZARDOUS WASTE PER MONTH) | ☑ | ☑ |
| SMALL QUANTITY GENERATOR (>100 KG BUT <1000 KG HAZARDOUS WASTE PER MONTH) | ☐ | ☐ |
| CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (< 100 KG HAZARDOUS WASTE PER MONTH) | ☐ | ☐ |

## II. WASTE STREAM IDENTIFICATION

PLEASE COMPLETE THE TABLE BELOW. SEE INSTRUCTIONS FOR CODES AND EXPLANATION.

| PROCESS | WASTE DESCRIPTION | WASTE ID | AMOUNT PER YEAR | DISPOSAL METHOD | STORAGE METHOD |
|---|---|---|---|---|---|
| Maintenance | Light bulbs | NA | 228 lbs. | Recycling | [redacted] |
| Auto shop(shutdo | Hazwaste solid(oily abs,rags) | 223/352 | 320 lbs. | Recycling | |
| Auto shop(shutdo | Clarifier sludge | 223 | 1400 gal. | Treatment | |
| Biology class | Waste formaldehide (specimens) | D001/331 | 340 lbs. | Incineration | |
| Maintenance/auto | Waste flammable liquid | D001/331 | 815 lbs. | Recycling | |
| Science class | Waste caustic alkali | D002/551 | 45 lbs. | Recycling | |
| Maintenance | Waste flammable solid | D001/352 | 200 lbs. | Recycling | |
| Maintenance | Asbestos | 151 | 27 cu. yrds. | Landfill | |
| Auto shop | Used oil | 221 | 50 gal. | Recycling | |
| | | | | | |

*I certify that the information provided herein is true and accurate to the best of my knowledge.*

| OWNER/OPERATOR NAME Jeanette Stevens | OWNER/OPERATOR TITLE Principal |
|---|---|
| OWNER/OPERATOR SIGNATURE Jeanette Stevens | DATE 11/22/2010 |

| OFFICIAL USE ONLY | DATE RECEIVED | REVIEWED BY | |
|---|---|---|---|
| CUPA | PA | DISTRICT | INSPECTOR |

FA0002241

# Los Angeles Unified School District

## Office of Environmental Health and Safety


RAMON C. CORTINES
*Superintendent of Schools*

DAVID HOLMQUIST
*Chief Operating Officer*

YI HWA KIM
*Interim Director*


July 22, 2009

Los Angeles County Fire Department
Health Hazardous Materials Division
Data Operations Unit
5825 Rickenbacker Road
Commerce, CA 90040

**SUBJECT: SUBMITTAL OF CONSOLIDATED CONTINGENCY PLAN FOR SAN PEDRO HIGH SCHOOL**

The Los Angeles Unified School District would like to submit a Consolidated Contingency Plan for the following site:

Facility Name: San Pedro High School
Street Address: 1001 West 15th Street
City, State Zip: San Pedro, CA 90731

This plan is for the reporting year 2009. If you have any questions, please contact me at (213) 241-3199.

Sincerely,

Graciela Merchan

c. Soe Aung, Environmental Compliance Manager
Jeanette Stevens, San Pedro High School

Enclosure(s):

# UNIFIED PROGRAM (UP) FORM
# BUSINESS ACTIVITIES



## I. FACILITY IDENTIFICATION

| FACILITY ID # | F | A | | 0 | 0 | 0 | | 2 | 2 | 4 | 1 | | | | 1 | EPA ID # (Hazardous Waste Only) 2<br>CAD982022642 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

BUSINESS NAME (Same as Facility Name of DBA-Doing Business As) 3
**San Pedro High School**

## II. ACTIVITIES DECLARATION

**NOTE: If you check YES to any part of this list, please submit the Business Owner/Operator Identification page.**

| Does your facility... | | If Yes, please complete these pages of the UP FORM.... |
|---|---|---|
| A. HAZARDOUS MATERIALS<br>Have on site (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70? | ☑ Yes ☐ No 4 | →HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION<br>→CONSOLIDATED CONTINGENCY PLAN (Section I and Site Map(s))<br>→TRAINING PLAN |
| B. UNDERGROUND STORAGE TANKS (USTs) | | |
| 1. Own or operate underground storage tanks? | ☐ Yes ☑ No 5 | →UST FACILITY<br>→UST TANK (one page per tank) |
| 2. Intend to upgrade existing or install new USTs? | ☐ Yes ☑ No 6 | →UST FACILITY<br>→UST TANK (one per tank)<br>→UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank) |
| 3. Need to report closing a UST? | ☐ Yes ☑ No 7 | →UST TANK (closure portion –one page per tank) |
| C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs)<br>Own or operate ASTs above these thresholds:<br>---any tank capacity is greater than 660 gallons, or<br>---the total capacity for the facility is greater than 1,320 gallons? | ☐ Yes ☑ No 8 | NO FORM REQUIRED TO CUPAs |
| D. HAZARDOUS WASTE | | |
| 1. Generate hazardous waste? | ☑ Yes ☐ No 9 | →EPA ID NUMBER – provide at the top of this page.<br>→As a generator, answer YES to Item E2b and complete Waste Generator Form. |
| 2. Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)? | ☐ Yes ☑ No 10 | →RECYCLABLE MATERIALS REPORT |
| 3. Treat hazardous waste on site? | ☐ Yes ☑ No 11 | →ONSITE HAZARDOUS WASTE TREATMENT – FACILITY<br>→ONSITE HAZARDOUS WASTE TREATMENT – UNIT (one page per unit) |
| 4. Treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)? | ☐ Yes ☑ No 12 | →CERTIFICATION OF FINANCIAL ASSURANCE |
| 5. Consolidate hazardous waste generated at a remote site? | ☐ Yes ☑ No 13 | →REMOTE WASTE / CONSOLIDATION SITE ANNUAL NOTIFICATION |
| 6. Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite? | ☐ Yes ☑ No 14 | →HAZARDOUS WASTE TANK CLOSURE CERTIFICATION |
| E. LOCAL REQUIREMENTS 15 | | |
| 1. REGULATED SUBSTANCES<br>Have Regulated Substances (RS) stored on site at greater than the threshold quantities established by the California Accidental Release Program (Cal ARP) ? | ☐ Yes ☑ No 15a | In addition to Hazardous Materials requirements, complete:<br>→Regulated Substance Registration<br>→Risk Management Plan (when required) |
| 2. OTHER REQUIREMENTS | | |
| a. Have hazardous materials stored on site at or above a threshold amount established by a CUPA's or PA's local ordinance? | ☐ Yes ☑ No 15b | →Consult local CUPA or PA for added reporting requirements. |
| b. Required by a CUPA or PA to provide other information? | ☑ Yes ☐ No 15c | →Waste Generator Form (LA County) |

| OFFICIAL USE ONLY | UP Form | HW | HM | ARP | AST | UST | TP | CUPA | PA |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

# UNIFIED PROGRAM (UP) FORM
## BUSINESS OWNER/OPERATOR IDENTIFICATION

☐ NEW BUSINESS ☐ OUT OF BUSINESS ☑ REVISE/UPDATE (EFFECTIVE ) PAGE OF

### I. IDENTIFICATION

| | | | |
|---|---|---|---|
| FACILITY ID# FA 0002241 [1] | BEGINNING DATE [100] 1/1/2009 | ENDING DATE [101] 12/31/2009 | |
| BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) [3] San Pedro High School | | BUSINESS PHONE [102] (310) 241-5800 | |
| BUSINESS SITE ADDRESS [103] 1001 West 15th Street | | | |
| CITY San Pedro [104] | CA | ZIP CODE [105] 90731 | |
| DUN & BRADSTREET [106] N/A | | SIC CODE (4 digit #) [107] 8211 | |
| COUNTY [108] Los Angeles | | UNINCORPORATED [133a.] No | |
| BUSINESS OPERATOR NAME [109] Los Angeles Unified School District | | BUSINESS OPERATOR PHONE [110] (213) 241-3199 | |

### II. BUSINESS OWNER

| | | |
|---|---|---|
| OWNER NAME [111] Los Angeles Unified School District | | OWNER PHONE [112] (213) 241-3199 |
| OWNER MAILING ADDRESS [113] 333 S. Beaudry Avenue, 20th Floor | | |
| CITY [114] Los Angeles | STATE [115] CA | ZIP CODE [116] 90017 |

### III. ENVIRONMENTAL CONTACT

| | | |
|---|---|---|
| CONTACT NAME [117] Soe Aung | | CONTACT PHONE [118] (213) 241-3199 |
| CONTACT MAILING ADDRESS [119] 333 S. Beaudry Avenue, 20th Floor | | |
| CITY [120] Los Angeles | STATE [121] CA | ZIP CODE [122] 90017 |

### IV. EMERGENCY CONTACTS

| -PRIMARY- | -SECONDARY- |
|---|---|
| NAME [123] Jeanette Stevens | NAME [128] Aadil Naazir |
| TITLE [124] Principal | TITLE [129] Assistant Principal |
| BUSINESS PHONE [125] (310) 241-5802 | BUSINESS PHONE [130] (310) 241-5802 |
| 24-HOUR PHONE [126] [redacted] | 24-HOUR PHONE [131] [redacted] |
| PAGER # [127] | PAGER # [132] |

### V. ADDITIONAL LOCALLY COLLECTED INFORMATION

NUMBER OF EMPLOYEES [133b] 5 | FEDERAL TAX IDENTIFICATION NUMBER [133c] [redacted]

### MAILING/ BILLING INFORMATION

| ADDRESS [133d] | CITY [133e] | STATE [133f] | ZIP CODE [133g] |
|---|---|---|---|
| 333 S. Beaudry Avenue, 20th Floor | Los Angeles | CA | 90017 |

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

| SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE | DATE [134] | NAME OF DOCUMENT PREPARER [135] |
|---|---|---|
| Jeanette Stevens (for, AP) | 6/30/2009 | Graciela Merchan |
| NAME OF SIGNER (print) [136] Jeanette Stevens | TITLE OF SIGNER [137] Principal | |

| OFFICIAL USE ONLY | UP Form | HW | HM | ARP | AST | UST | TP | CUPA | PA |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| INSPECTOR | DISTRICT | DATE OF INSPECTION | DIVISION | BATTALION | STATION |
|---|---|---|---|---|---|
| | | | | | |

# Unified Program (UP) Form
# CONSOLIDATED CONTINGENCY PLAN

## COVER PAGE

| FACILITY IDENTIFICATION | | | | |
|---|---|---|---|---|
| BUSINESS NAME<br>San Pedro High School | | | 3 | FACILITY ID # 1<br>F00002241 |
| SITE ADDRESS<br>1001 West 15th Street | 103 | CITY<br>San Pedro | 104 | ZIP CODE 105<br>90731 |

The Consolidated Contingency Plan provides businesses a format to comply with the emergency planning requirements of the following three written hazardous materials emergency response plans required in California:

- ◁ Hazardous Materials Business Plan (HSC Chapter 6.95 Section 25504 (b) and 19 CCR Sections 2729-2732),
- ◁ Hazardous Waste Generator Contingency Plan (22 CCR Section 66264.52), and,
- ◁ Underground Storage Tank Emergency Response Plan and Monitoring Program (23 CCR Sections 2632 and 2641).

This format is designed to reduce duplication in the preparation and use of emergency response plans at the same facility, and to improve the coordination between facility response personnel and local, state and federal emergency responders during an emergency. Use the chart below to determine which sections of the Consolidated Contingency Plan need to be completed for your facility. If you are unsure as to which programs your facility is subject to, refer to the Business Activities Page.

| PROGRAMS | SECTION(S) TO BE COMPLETED |
|---|---|
| Hazardous Materials Business Plan (HMBP) | Cover Page, Section I, and Site Map(s) |
| Hazardous Waste Generator (HWG) | Cover Page, Section I, and Site Map(s) |
| Underground Storage Tank (UST) | Cover Page, Sections I and II, and Site Map(s) |
| HMBP, HWG, UST | Cover Page, Sections I and II, and Site Map(s) |

**A copy of the plan shall be submitted to your local CUPA and at least one copy of the plan shall be maintained at the facility for use in the event of an emergency and for inspection by the local agency.** Describe below where a copy of your Contingency Plan, including the hazardous material inventories and Site Map(s), is located at your business:

Main Office

| PLAN CERTIFICATION | |
|---|---|
| *I certify under penalty of law that I have personally examined and I am familiar with the information provided by this plan and to the best of my knowledge the information is accurate, complete, and true.* | |
| Printed Name of Owner/ Operator<br>Jeanette Stevens | Title of Owner/Operator<br>Principal |
| Signature of Owner/ Operator<br>Jeanette Stevens (for JH) | Date<br>6/30/2009 |

We appreciate the effort of local businesses in completing these plans and will assist in every possible way. If you have any questions, please contact your local CUPA or PA.

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# Unified Program (UP) Form
# CONSOLIDATED CONTINGENCY PLAN

## SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

### I. FACILITY IDENTIFICATION

| | | | | | |
|---|---|---|---|---|---|
| BUSINESS NAME<br>San Pedro High School | | | | 3 | FACILITY ID #.1<br>F00002241 |
| SITE ADDRESS<br>1001 West 15th Street | 103 | CITY<br>San Pedro | 104 | ZIP CODE<br>90731 | 105 |

### II. EMERGENCY CONTACTS

| PRIMARY | | SECONDARY | |
|---|---|---|---|
| NAME<br>Linda Kay | 123 | NAME<br>Aadil Naazir | 128 |
| TITLE<br>Principal | 124 | TITLE<br>Assistant Principal | 129 |
| BUSINESS PHONE<br>(310) 241-5802 | 125 | BUSINESS PHONE<br>(310) 241-5802 | 130 |
| 24-HOUR PHONE<br>[redacted] | 126 | 24-HOUR PHONE<br>[redacted] | 131 |
| PAGER # | 127 | PAGER # | 132 |

### III. EMERGENCY RESPONSE PLANS AND PROCEDURES

#### A. Notifications

Your business is required by State Law to provide an immediate verbal report of any release or threatened release of a hazardous material to local fire emergency response personnel, this Unified Program Agency (CUPA or PA), and the Office of Emergency Services. If you have a release or threatened release of hazardous materials, immediately call:

FIRE/PARAMEDICS/POLICE/SHERIFF
PHONE: 911

**AFTER** the local emergency response personnel are notified, you shall then notify this Unified Program Agency and the Office of Emergency Services.

| | |
|---|---|
| Local Unified Program Agency: | (323) 890-4317 |
| State Office of Emergency Service: | (800) 852-7550 or (916) 262-1621 |
| National Response Center: | (800) 424-8802 |

Information to be provided during Notification:

- ◁ Your Name and the Telephone Number from where you are calling.
- ◁ Exact address of the release or threatened release.
- ◁ Date, time, cause, and type of incident (e.g. fire, air release, spill etc.)
- ◁ Material and quantity of the release, to the extent known.
- ◁ Current condition of the facility.
- ◁ Extent of injuries, if any.
- ◁ Possible hazards to public health and/ or the environment outside of the facility.

#### B. Emergency Medical Facility

List the local emergency medical facility that will be used by your business in the event of an accident or injury caused by a release or threatened release of hazardous material

| | |
|---|---|
| HOSPITAL/CLINIC:<br>Little Company of Mary - San Pedro | PHONE NO:<br>(310) 832-3311 |
| ADDRESS:<br>1300 W. 7th Street | |
| CITY:<br>San Pedro | ZIP CODE:<br>90732 |

| OFFICIAL USE ONLY | | DATE RECEIVED | | | REVIEWED BY | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

## Unified Program (UP) Form
## CONSOLIDATED CONTINGENCY PLAN

## SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

### C. Private Emergency Response

**DOES YOUR BUSINESS HAVE A PRIVATE ON-SITE EMERGENCY RESPONSE TEAM?** ☐ Yes ☑ No

If yes, provide an attachment that describes what policies and procedures your business will follow to notify your on-site emergency response team in the event of a release or threatened release of hazardous materials.

**CLEANUP/DISPOSAL CONTRACTOR**

List the contractor that will provide cleanup services in the event of a release.

| NAME OF CONTRACTOR: | PHONE NO: |
|---|---|
| **Ecology Control Industries** | **(310) 354-9999** |
| ADDRESS: **19500 Normandie Avenue** | |
| CITY: **Torrance, CA** | ZIP CODE: **90501** |

### D. Arrangements With Emergency Responders

If you have made special (i.e. contractual) arrangements with any police department, fire department, hospital, contractor, or State or local emergency response team to coordinate emergency services, describe those arrangements on the lines below:

**All LAUSD schools are served by the School District Police Department. In addition, they are supported by the District's Office of Environmental Health and Safety that has an Emergency Response team that is trained and licensed to oversee hazardous material clean-up.**

### E. Evacuation Plan

1. The following alarm signal(s) will be used to begin evacuation of the facility *(check all which apply)*:

☑ Verbal ☑ Telephone *(including cellular)* ☑ Alarm System ☑ Public Address System ☑ Intercom
☐ Pagers ☑ Portable Radio ☐ Other *(specify)*:

2. ☑ Evacuation map is prominently displayed throughout the facility. **Yes. In the Safe School Plan**

3. ☑ Individual(s) responsible for coordinating evacuation including spreading the alarm and confirming the business has been evacuated: **All Administrative Staff, Certificated and Classified Staff - See Safe School Plan, Volume 2**

### F. Earthquake Vulnerability

Identify areas of the facility where releases could occur or would require immediate inspection or isolation because of the vulnerability to earthquake related ground motion.

☑ Hazardous Waste/ Hazardous Materials Storage Areas ☐ Production Floor ☐ Process Lines
☐ Bench/ Lab ☐ Waste Treatment ☐ Other:

Identify mechanical systems where releases could occur or would require immediate inspection or isolation because of the vulnerability to earthquake related ground motion.

☑ Utilities ☑ Sprinkler Systems ☑ Cabinets ☑ Shelves
☑ Racks ☐ Pressure Vessels ☐ Gas Cylinders ☐ Tanks
☐ Process Piping ☑ Shutoff Valves ☐ Other:

## Unified Program (UP) Form
## CONSOLIDATED CONTINGENCY PLAN

## SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

### G. Emergency Procedures

Briefly describe your business standard operating procedures in the event of a release or threatened release of hazardous materials:

1. **PREVENTION** (prevent the hazard) - Describe the kinds of hazards associated with the hazardous materials present at your facility. What actions would your business take to prevent these hazards from occurring? You may include a discussion of safety and storage procedures.

**All Los Angeles City schools are limited to a small number of approved chemicals that are allowed on campus. Chemistry classes are encouraged to use "Micro Chemistry" to reduce the quantity of chemicals being used and stored on campus. Schools are not allowed to store or use any kinds of herbicides or pesticides for weed or pest management.**

**Gasoline drums shall be stored inside a locked flammable liquid storage room (i.e. gasoline bunker or block house) and shall be posted with 'No Smoking' and 'Flammable Liquid' signs outside the room. Gasoline drums shall be grounded with wire at all times. Diesel drums shall also be kept inside the flammable liquid storage room. 'No Smoking' and ' Combustible Liquid' signs shall be posted for diesel drums. Welding process shall not be conducted nearby this room. It is strongly suggested to store minimal quantity and to use secondary containment system for these drums.**

**Compressed gas cylinders shall be chained at all times. A compressed gas sign shall be posted on the cylinder(s) or by the cylinder(s). Waste oil and waste anti-freeze drums shall be kept inside the secondary containment system and affixed with completed hazardous waste labels**

2. **MITIGATION** (reduce the hazard) - Describe what is done to lessen the harm or the damage to person(s), property, or the environment, and prevent what has occurred from getting worse or spreading. What is your immediate response to a leak, spill, fire, explosion, or airborne release at your business?

**All Los Angeles City School personnel receive annual training on chemical safety. In addition, specific classes of employees receive additional training on chemical use and safety. At least once a year the schools are inspected by a School Safety Officer and chemical supplies are inspected. Outdated and unauthorized chemicals are removed.**

3. **ABATEMENT** (remove the hazard) - Describe what you would do to stop and remove the hazard. How do you handle the complete process of stopping a release, cleaning up, and disposing of released materials at your facility?

**All Los Angeles City Schools follow specific directions found in Safe School Plan, Volume 2 - Emergency Procedures. If a substance is released the students are evacuated to a safe zone, the release area is isolated and access is restricted. The School will call the Office of Environmental Health and Safety and their Emergency Reponse Team will work with local responders and district contractors to abate the condition.**

## Unified Program (UP) Form
## CONSOLIDATED CONTINGENCY PLAN

### SITE MAP

A site plan and storage map must be included with your Contingency Plan. For relatively small facilities, these documents may be combined into one drawing. Since these drawings are intended for use in emergency response situations, larger facilities *(generally those with complex and/or multiple buildings)* should provide an overall site plan and a separate storage map for each building/storage area. A blank Facility Site Map has been provided on the reverse side of this page. You may complete that page or attach any other drawing(s) which contain(s) the information required below.

1. **Site Plan:** This drawing shall contain, <u>at a minimum</u>, the following information:

   a. Site Orientation (north, south, etc.);
   b. Approximate scale *(e.g. "1 inch = 10 feet".)*;
   c. Date the map was drawn;
   d. Locations of all buildings and other structures;
   e. Parking lots and internal roads;
   f. Hazardous materials loading/unloading areas;
   g. Outside hazardous materials storage or use areas;
   h. Storm drain and sanitary sewer drain inlets;
   i. Wells for monitoring of underground tank systems;
   j. Primary and alternate evacuation routes, emergency exits, and primary and alternate staging areas;
   k. Adjacent property use;
   l. Locations and names of adjacent streets and alleys;
   m. Access and egress points and roads.

2. **Storage Map(s):** The map(s) shall contain, <u>at a minimum</u>, the following information:

   a. General purpose of each section/area within each building *(e.g. "Office Area", "Manufacturing Area", etc.)*;
   b. Location of each hazardous material/waste storage, dispensing, use, or handling area *(e.g. individual underground tanks, aboveground tanks, storage rooms, paint booths, etc.)*. Each area shall be identified by a unique location code number, letter, or name *(e.g. "1", "2", "3"; "A", "B", "C", etc.)*;
   c. Entrances to and exits from each building and hazardous material/waste room/area;
   d. Location of each utility emergency shut-off point *(i.e. gas, water, electric.)*;
   e. Location of each monitoring system control panel *(e.g. underground tank monitoring, toxic gas monitoring, etc.)*.

3. **Map Legend**

| Item and/or Description | Location Code (LC) |
|---|---|
| GAS SHUT OFF | [redacted] |
| WATER SHUT OFF | |
| ELECTRICAL SHUT OFF | |
| FIRE DEPARTMENT CONNECTION | |
| FIRE HYDRANTS | |
| FUEL BUNKER | |
| PAINT STORAGE BIN | |
| EMERGENCY BIN | |
| PLANT MANAGER STORAGE AREA | |
| | |
| | |
| | |
| | |
| | |
| | |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR 2009 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203 See Page 18

GRID# (optional) 204 C-8

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Gasoline

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME Gasoline 207

EHS* ☐ Yes ☑ No 208

CAS# 8006-61-9 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 3 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☑ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 55 gallon 215

FED HAZARD CATEGORIES (Check all that apply) ☑ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 55 gallons | 110 gallons | N/A | N/A |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 365 222

STORAGE CONTAINER [redacted]
☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ h. SILO ☐ i. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 12 226 | Toluene 27 | ☐ Yes ☑ No 228 | 108-88-3 229 |
| 11 230 | Xylene 31 | ☐ Yes ☑ No 232 | 1330-20-7 233 |
| 5 234 | Benzene 35 | ☐ Yes ☑ No 236 | 71-43-2 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | | REVIEWED BY | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
## HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION
(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR **2009** 200 Page of

### I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204 **C-8**

### II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Diesel Fuel**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Diesel Fuel** 207

EHS* ☐ Yes ☑ No 208

CAS# **437986-25-09** 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) **3** 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☑ a. PURE ☐ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **55 gallon** 215

FED HAZARD CATEGORIES (Check all that apply) ☑ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| **30 gallons** | **55 gallons** | **N/A** | **N/A** |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: **365** 222

STORAGE CONTAINER [redacted]
☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| **100** 226 | **Diesel** 27 | ☐ Yes ☑ No 228 | **437986-25-09** 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | DATE RECEIVED | REVIEWED BY |
|---|---|---|

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|---|---|---|---|---|---|---|

# UNIFIED PROGRAM (UP) FORM
## HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION
(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR 2009 200 Page of

### I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204 **B8**

### II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Water base Paint**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Paint** 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☑ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **5 Gallon** 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| **100 gallons** | **275 gallons** | **NA** | **NA** |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: **365** 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 1 226 | Ethylene glycol 27 | ☐ Yes ☑ No 228 | 107-21-1 229 |
| 230 | 31 | ☐ Yes ☑ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

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# UNIFIED PROGRAM (UP) FORM
## HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION
(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR 2009 200 Page of

### I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203: **See Page 18**

GRID# (optional) 204: **B9**

### II. CHEMICAL INFORMATION

CHEMICAL NAME 205: **Super Polymer 85 - Maintex**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207: **Floor wax**

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

210

FIRE CODE HAZARD CLASSES (Complete if required by CUPA)

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☑ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

213 CURIES

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

215 LARGEST CONTAINER **5-gallon**

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| **150 gallons** | **360 gallons** | **NA** | **NA** |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: **365** 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| <8 226 | Glycol Ether DE 27 | ☐ Yes ☑ No 228 | 111-90-0 229 |
| <3 230 | Tributoxymethyl Phosphate 31 | ☐ Yes ☑ No 232 | 78-51-3 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

246 ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

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|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
## HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION
(one page per material per building or area)

☐ ADD ☑ DELETE ☐ REVISE REPORTING YEAR 2009 200 Page of

### I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203 See Page 18

GRID# (optional) 204 A-9

### II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Used oil

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME Used oil 207

EHS* ☐ Yes ☑ No 208

CAS# na 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 55-gallon 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 80 | 80 | 80 | 221 |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 222
90

STORAGE CONTAINER [redacted]
☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ h. SILO ☐ i. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Used oil 27 | ☐ Yes ☑ No 228 | na 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☑ ADD ☐ DELETE ☐ REVISE REPORTING YEAR 2009 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203 See Page 18

GRID# (optional) 204 B9

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Contender finish (Part A&B)-Hillyard

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME Gym finishing 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☑ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 5-gallon 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 45 gallons | 90 gallons | NA | NA |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 222
365

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☑ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 9-14 226 | Propylene glycol monomethyl ether 1 (Part A) 27 | ☐ Yes ☑ No 228 | 107-98-2 229 |
| <1 230 | Aminated acrylic polymer-chloride@bromide salt (A) 31 | ☐ Yes ☑ No 232 | 103051-70-3 233 |
| 4-8 234 | Gamma-butyrolactone-1 (Part B) 35 | ☐ Yes ☑ No 236 | 96-48-0 237 |
| <1 238 | Reaction products Epichlorohydrin&Bisphenol (B) 39 | ☐ Yes ☑ No 240 | 25085-99-9 241 |
| 1-5 242 | Benzyl alcohol -2 (Part B) 43 | ☐ Yes ☑ No 244 | 100-51-6 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | | REVIEWED BY | |
|---|---|---|---|---|---|---|
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# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☑ DELETE ☐ REVISE REPORTING YEAR 2009 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203: See Page 18

GRID# (optional) 204: A-9

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205: Used transmission fuild

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207: Used transmission fluid

EHS* ☐ Yes ☑ No 208

CAS# 209: na

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 55-gallon 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 55 | 55 | 55 | 221 |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 365 222

STORAGE CONTAINER [redacted]
☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ h. SILO ☐ i. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Used transmission fuild 27 | ☐ Yes ☑ No 228 | na 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☑ DELETE ☐ REVISE REPORTING YEAR 2009 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203: See Page 18

GRID# (optional) 204: A-9

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205: Waste coolant

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207: Waste coolant

EHS* ☐ Yes ☑ No 208

CAS# 209: na

*If EHS is "Yes", all amounts below must be in lbs. 210

FIRE CODE HAZARD CLASSES (Complete if required by CUPA)

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 55-gallon 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 55 | 55 | 55 | 343 |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 365 222

STORAGE CONTAINER [redacted]
☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Waste coolant 27 | ☐ Yes ☑ No 228 | na 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | DATE RECEIVED | REVIEWED BY |
|---|---|---|

| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |
|---|---|---|---|---|---|---|

# UNIFIED PROGRAM (UP) FORM
## HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION
(one page per material per building or area)

☐ ADD ☑ DELETE ☐ REVISE REPORTING YEAR 2009 200 Page of

### I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204

### II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Waste Asbestos**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Waste Asbestos** 207

EHS* ☐ Yes ☑ No 208

CAS# **na** 209

*If EHS is "Yes", all amounts below must be in lbs. 210

FIRE CODE HAZARD CLASSES (Complete if required by CUPA)

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☑ a. SOLID ☐ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **40 cubic** [redacted] 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 5000 | 12000 | 12000 | 151 |

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☑ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 90 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE
☐ B. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ d. STEEL DRUM ☐ h. SILO ☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Waste Asbestos 27 | ☐ Yes ☑ No 228 | na 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
## HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION
(one page per material per building or area)

☑ ADD ☐ DELETE ☐ REVISE REPORTING YEAR 2009 200 Page of

### I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204 **B9**

### II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**XS-100 Stripper**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Floor stripper Gorm** 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☑ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **1 gallon** 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| **25 gallons** | **55 gallons** | **NA** | **NA** |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: **365** 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 2 226 | 2-Butoxyethanol 27 | ☐ Yes ☑ No 228 | 111-76-2 229 |
| 1 230 | Sodium hydroxide 31 | ☐ Yes ☑ No 232 | 1310-73-2 233 |
| 3 234 | Monoethanolamine 35 | ☐ Yes ☑ No 236 | 141-43-5 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☑ ADD ☐ DELETE ☐ REVISE REPORTING YEAR 2009 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203 See Page 18

GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Spent photo chemical containing silver

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME Spent fixer / developer 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 15 gallons 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 60 gallons | 120 gallons | 120 gallons | 541 |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 60 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Spent photo chemical containing silver 27 | ☐ Yes ☑ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | | REVIEWED BY | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION
(one page per material per building or area)

☑ ADD ☐ DELETE ☐ REVISE REPORTING YEAR 2009 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203 See Page 18

GRID# (optional) 204 D11

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Chemical waste

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207 Chemical waste

EHS* ☐ Yes ☑ No 208
*If EHS is "Yes", all amounts below must be in lbs.

CAS# 209 210

FIRE CODE HAZARD CLASSES (Complete if required by CUPA)

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 5 gallons 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 15 gallons | 30 gallons | 30 gallons | 551/D001 |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 60 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE
☐ B. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ d. STEEL DRUM ☐ h. SILO ☐ i. CYLINDER ☐ p. TANK WAGON
[redacted] 223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Chemical waste 27 | ☐ Yes ☑ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | DATE RECEIVED | REVIEWED BY |
|---|---|---|

| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |
|---|---|---|---|---|---|---|

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS WASTE GENERATOR

PAGE OF

| BUSINESS NAME: San Pedro High School | | |
|---|---|---|
| FACILITY ID # F A 0 0 0 2 2 4 1 | NO. OF EMPLOYEES: 33b 5 | EPA ID # CAD982022642 |

## I. TYPE OF GENERATOR

PLEASE CHECK THE FOLLOWING BOXES THAT APPLY

| | RCRA GENERATOR (FEDERAL WASTE) | NON -RCRA GENERATOR (CALIFORNIA WASTE ONLY) |
|---|---|---|
| LARGE QUANTITY GENERATOR (>1000 KG HAZARDOUS WASTE PER MONTH) | ☐ | ☐ |
| SMALL QUANTITY GENERATOR (>100 KG BUT <1000 KG HAZARDOUS WASTE PER MONTH) | ☑ | ☑ |
| CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (< 100 KG HAZARDOUS WASTE PER MONTH) | ☐ | ☐ |

## II. WASTE STREAM IDENTIFICATION

PLEASE COMPLETE THE TABLE BELOW. SEE INSTRUCTIONS FOR CODES AND EXPLANATION.

| PROCESS | WASTE DESCRIPTION | WASTE ID | AMOUNT PER YEAR | DISPOSAL METHOD | STORAGE METHOD |
|---|---|---|---|---|---|
| Maintenance | Light bulbs | NA | 192 pounds | Recycling | [redacted] |
| Science class | Chemical lab pack | 551 | 30 gallons | Treatment | |
| Photo class | Spent fixer/developer | 541/D011 | 120 gallons | Recycling | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

*I certify that the information provided herein is true and accurate to the best of my knowledge.*

| OWNER/OPERATOR NAME Jeanette Stevens | OWNER/OPERATOR TITLE Principal |
|---|---|
| OWNER/OPERATOR SIGNATURE Jeanette Stevens (for JP) | DATE 6/30/2009 |

| OFFICIAL USE ONLY | DATE RECEIVED | REVIEWED BY | |
|---|---|---|---|
| CUPA | PA | DISTRICT | INSPECTOR |

**PUBLIC HEALTH INVESTIGATION**
**CUSTODIAN OF RECORDS**
**REQUEST FOR PUBLIC RECORDS**

**TEL (323) 890-7806** **FAX (323) 728-0217**

**Complete the Custodian of Records Request for Public Records Form in blue or black ink, or type.**
**If you have any questions about completing the form or requesting Hazardous Materials reports call (323) 890-7806.**

**Submit your request to Public Health Investigation, Custodian of Records Office to Fax Number (323) 728-0217, Email to** pbicor@ph.lacounty.gov, **or mail to:**

**Public Health Investigation**
**5555 Ferguson Drive Suite 120-04**
**Commerce, CA 90022**

*Required Information

| REQUESTOR INFORMATION | | |
|---|---|---|
| *Name* * | | Natalia Guerra |
| *Address* * | | 21732 Devonshire Street, Suite B |
| *City* * | | Chatsworth |
| *State* * | | California |
| *Zip* * | | 91313 |
| *Telephone No.* * | | (818) 727-2553 |
| *Fax No.* | | (818) 727-2556 |
| *Website Email* | | nguerra@csceng.com |

| CONTACT PERSON INFORMATION *(If different from Requestor)* | | |
|---|---|---|
| *Name* | | |
| *Telephone No.* | | |

| DELIVERY OF RECORDS *(If different from Requestor)* | | |
|---|---|---|
| *Address* | | |
| *City* | | |
| *Zip* | | |

**RECORD INFORMATION Type of Record** * *(Choose only one per request)*

| ENVIRONMENTAL HEALTH DISTRICT SURVEILLANCE | | ENVIRONMENTAL HEALTH PROTECTION | | HEALTH HAZARDOUS MATERIALS | | ALL OTHERS | |
|---|---|---|---|---|---|---|---|
| *Apartment, Condo, Home Inspections* | | *Beaches* | | *CalARP* | | *Animal Bite Report* | |
| *Apartment, Condo, Home and Institution Lead Inspections* | | *Landfills* | | *Emergency Response* | | *Medical Marijuana ID* | |
| *Food Borne Outbreak* | | *Public Swimming Pools* | | *Hazmat Site Inspections* | ✓ | | |
| *Food Poisoning* | | *Recycled Water* | | *Hazmat Site Mitigation* | ✓ | | |
| *Food Vehicles* | | *Residential Pools* | | | | | |
| *Motels and Hotel Inspection* | | *Septic Tanks* | | | | | |
| *Retail Food Inspection* | | *Sewage* | | | | | |
| *Schools and Day Care Inspection* | | *Water Wells* | | | | | |
| *Street Vendor* | | | | | | | |

| *Other Type of Record:* | | |
|---|---|---|

| REQUEST INFORMATION *(Provide as much information possible)* | | |
|---|---|---|
| *Incident Date/Time* | | |
| *Incident/Food Borne Illness/Outbreak Summary No.* | | |
| *Type of Disease* | | |
| *Inspector Name (If known)* | | |
| *Incident Location* | | |
| *Owner Name* | | |
| *Victim/Patient/Complainant Name* | | |
| *Date of Birth* | | |
| *Medical Record No.* | | |
| *Location of Records* | | |
| *Site/Street Address* | | 1001 W 15th Street |
| *Site/City* | | San Pedro (Los Angeles) |
| *Site/Zip* | | 90731 |

Certmail, #91 7108 2133 3938 7679 8106

# Los Angeles Unified School District

## Office of Environmental Health and Safety

RAMON C. CORTINES
*Superintendent of Schools*

WENDY MACY
*Chief Operating Officer*

JOHN STERRITT
*Director*

FA 2241

FA0000446

December 06, 2010

Los Angeles County Fire Department
Health Hazardous Materials Division
Data Operations Unit
5825 Rickenbacker Road
Commerce, CA 90040

**SUBJECT: SUBMITTAL OF CONSOLIDATED CONTINGENCY PLAN FOR SAN PEDRO HIGH SCHOOL**

The Los Angeles Unified School District would like to submit a Consolidated Contingency Plan for the following site:

Facility Name: San Pedro High School
Street Address: 1001 West 15th Street
City, State Zip: San Pedro, CA 90731

This plan is for the reporting year 2010. If you have any questions, please contact me at (213) 241-3199.

Sincerely,

Graciela Merchan

c. Soe Aung, Environmental Health Supervisor
Jeanette Stevens, San Pedro High School

Enclosure(s):

Received
JAN 25 2011
HHMD-DataOps

333 S. Beaudry Avenue, 27th Floor, Los Angeles, CA 90017 - Telephone (213) 241-3199 - Fax (213) 241-6816

## Unified Program (UP) Form
## CONSOLIDATED CONTINGENCY PLAN

## SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

### C. Private Emergency Response

**DOES YOUR BUSINESS HAVE A PRIVATE ON-SITE EMERGENCY RESPONSE TEAM?** ☐ Yes ☑ No

If yes, provide an attachment that describes what policies and procedures your business will follow to notify your on-site emergency response team in the event of a release or threatened release of hazardous materials.

**CLEANUP/DISPOSAL CONTRACTOR**

List the contractor that will provide cleanup services in the event of a release.

| NAME OF CONTRACTOR: | PHONE NO: |
|---|---|
| **Ecology Control Industries** | **(310) 354-9999** |
| ADDRESS: **19500 Normandie Avenue** | |
| CITY: **Torrance, CA** | ZIP CODE: **90501** |

### D. Arrangements With Emergency Responders

If you have made special (i.e. contractual) arrangements with any police department, fire department, hospital, contractor, or State or local emergency response team to coordinate emergency services, describe those arrangements on the lines below:

**All LAUSD schools are served by the School District Police Department. In addition, they are supported by the District's Office of Environmental Health and Safety that has an Emergency Response team that is trained and licensed to oversee hazardous material clean-up.**

### E. Evacuation Plan

1. The following alarm signal(s) will be used to begin evacuation of the facility *(check all which apply)*:

☑ Verbal ☑ Telephone *(including cellular)* ☑ Alarm System ☑ Public Address System ☑ Intercom
☐ Pagers ☑ Portable Radio ☐ Other *(specify)*:

2. ☑ Evacuation map is prominently displayed throughout the facility. **Yes. In the Safe School Plan**

3. ☑ Individual(s) responsible for coordinating evacuation including spreading the alarm and confirming the business has been evacuated: **All Administrative Staff, Certificated and Classified Staff - See Safe School Plan, Volume 2**

### F. Earthquake Vulnerability

Identify areas of the facility where releases could occur or would require immediate inspection or isolation because of the vulnerability to earthquake related ground motion.

☑ Hazardous Waste/ Hazardous Materials Storage Areas ☐ Production Floor ☐ Process Lines
☐ Bench/ Lab ☐ Waste Treatment ☐ Other:

Identify mechanical systems where releases could occur or would require immediate inspection or isolation because of the vulnerability to earthquake related ground motion.

| | | | |
|---|---|---|---|
| ☑ Utilities | ☑ Sprinkler Systems | ☑ Cabinets | ☑ Shelves |
| ☑ Racks | ☐ Pressure Vessels | ☐ Gas Cylinders | ☐ Tanks |
| ☐ Process Piping | ☑ Shutoff Valves | ☐ Other: | |

## Unified Program (UP) Form
## CONSOLIDATED CONTINGENCY PLAN

### SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

**G. Emergency Procedures**

Briefly describe your business standard operating procedures in the event of a release or threatened release of hazardous materials:

1. **PREVENTION** (prevent the hazard) - Describe the kinds of hazards associated with the hazardous materials present at your facility. What actions would your business take to prevent these hazards from occurring? You may include a discussion of safety and storage procedures.

**All Los Angeles City schools are limited to a small number of approved chemicals that are allowed on campus. Chemistry classes are encouraged to use "Micro Chemistry" to reduce the quantity of chemicals being used and stored on campus. Schools are not allowed to store or use any kinds of herbicides or pesticides for weed or pest management.**

**Gasoline drums shall be stored inside a locked flammable liquid storage room (i.e. gasoline bunker or block house) and shall be posted with 'No Smoking' and 'Flammable Liquid' signs outside the room. Gasoline drums shall be grounded with wire at all times. Diesel drums shall also be kept inside the flammable liquid storage room. 'No Smoking' and ' Combustible Liquid' signs shall be posted for diesel drums. Welding process shall not be conducted nearby this room. It is strongly suggested to store minimal quantity and to use secondary containment system for these drums.**

**Compressed gas cylinders shall be chained at all times. A compressed gas sign shall be posted on the cylinder(s) or by the cylinder(s). Waste oil and waste anti-freeze drums shall be kept inside the secondary containment system and affixed with completed hazardous waste labels**

2. **MITIGATION** (reduce the hazard) - Describe what is done to lessen the harm or the damage to person(s), property, or the environment, and prevent what has occurred from getting worse or spreading. What is your immediate response to a leak, spill, fire, explosion, or airborne release at your business?

**All Los Angeles City School personnel receive annual training on chemical safety. In addition, specific classes of employees receive additional training on chemical use and safety. At least once a year the schools are inspected by a School Safety Officer and chemical supplies are inspected. Outdated and unauthorized chemicals are removed.**

3. **ABATEMENT** (remove the hazard) - Describe what you would do to stop and remove the hazard. How do you handle the complete process of stopping a release, cleaning up, and disposing of released materials at your facility?

**All Los Angeles City Schools follow specific directions found in Safe School Plan, Volume 2 - Emergency Procedures. If a substance is released the students are evacuated to a safe zone, the release area is isolated and access is restricted. The School will call the Office of Environmental Health and Safety and their Emergency Reponse Team will work with local responders and district contractors to abate the condition.**

# Unified Program (UP) Form
# CONSOLIDATED CONTINGENCY PLAN

## SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

### IV. Emergency Equipment

22 CCR, Section 66265.52(e) [as referenced by Section 66262.34(a)(3)] requires that emergency equipment at the facility be listed. Completion of the following Emergency Equipment Inventory Table meets this requirement.

| 1. Equipment Category | 2. Equipment Type | 3. Location * | 4. Description** |
|---|---|---|---|
| Personal Protective, Equipment, Safety Equipment, and First Aid Equipment | ☐ Cartridge Respirators | | |
| | ☐ Chemical Monitoring Equipment *(describe)* | | |
| | ☑ Chemical Protective Aprons/Coats | [redacted] | Rubberized & vinyl plastic (ER Bin, Science labs) |
| | ☐ Chemical Protective Boots | | |
| | ☑ Chemical Protective Gloves | | Neoprene & Latex (ER Bin, Science labs) |
| | ☐ Chemical Protective Suits *(describe)* | | |
| | ☑ Face Shields | | Full face shield clear acetate (ER Bin) |
| | ☑ First Aid Kits/Stations *(describe)* | | Standard (ER Bin, Nurse office) |
| | ☑ Hard Hats | | Plastic (Emergency Bin) |
| | ☐ Plumbed Eye Wash Stations | | |
| | ☑ Portable Eye Wash Kits *(i.e. bottle type)* | | Eyesaline bottles (ER Bin) |
| | ☐ Respirator Cartridges *(describe)* | | |
| | ☑ Safety Glasses/Splash Goggles | | Standard vented goggles (ER Bin, Science labs) |
| | ☑ Safety Showers | | Science First floor #150 |
| | ☐ Self-Contained Breathing Apparatuses (SCBA) | | |
| | ☑ Other *(describe)* | | Generator |
| Fire Extinguishing Systems | ☑ Automatic Fire Sptinkler Systems | | Only in main buildings not in bungalous |
| | ☑ Fire Alarm Boxes/Stations | | Standard |
| | ☑ Fire Extinguisher Systems *(describe)* | | Standard |
| | ☐ Other *(describe)* | | |
| Spill Control Equipment and Decontamination Equipment | ☑ Absorbents (describe) | | Sorb-ALL-60(PlantMgr);abs.chem.pad(labs) |
| | ☐ Berms/Dikes (describe) | | |
| | ☐ Decontamination Equipment (describe) | | |
| | ☐ Emergency Tanks (describe) | | |
| | ☑ Exhaust Hoods | | Fume hoods (Science labs) |
| | ☐ Gas Cylinders Leak Repair Kits (describe) | | |
| | ☐ Neutralizers (describe) | | |
| | ☐ Overpack Drums | | |
| | ☐ Sumps (describe) | | |
| | ☐ Other (describe) | | |
| Communications and Alarm Systems | ☐ Chemical Alarms (describe) | | |
| | ☑ Intercoms/ PA Systems | | |
| | ☑ Portable Radios | | |
| | ☑ Telephones | | |
| | ☐ Underground Tank Leak Detection Monitors | | |
| | ☐ Other (describe) | | |
| Additional Equipment (Use Additional Pages if Needed.) | | | |

**Use the Location Codes (LC) from the Site Map(s) prepared for your Contingency Plan.*

***Describe the equipment and its capabilities. If applicable, specify any testing/maintenance procedures/intervals. Attach additional pages, numbered appropriately, if needed.*

## Unified Program (UP) Form
## CONSOLIDATED CONTINGENCY PLAN

### SITE MAP

A site plan and storage map must be included with your Contingency Plan. For relatively small facilities, these documents may be combined into one drawing. Since these drawings are intended for use in emergency response situations, larger facilities *(generally those with complex and/or multiple buildings)* should provide an overall site plan and a separate storage map for each building/storage area. A blank Facility Site Map has been provided on the reverse side of this page. You may complete that page or attach any other drawing(s) which contain(s) the information required below.

1. **Site Plan:** This drawing shall contain, at a minimum, the following information:

   a. Site Orientation (north, south, etc.);
   b. Approximate scale *(e.g. "1 inch = 10 feet".)*;
   c. Date the map was drawn;
   d. Locations of all buildings and other structures;
   e. Parking lots and internal roads;
   f. Hazardous materials loading/unloading areas;
   g. Outside hazardous materials storage or use areas;
   h. Storm drain and sanitary sewer drain inlets;
   i. Wells for monitoring of underground tank systems;
   j. Primary and alternate evacuation routes, emergency exits, and primary and alternate staging areas;
   k. Adjacent property use;
   l. Locations and names of adjacent streets and alleys;
   m. Access and egress points and roads.

2. **Storage Map(s):** The map(s) shall contain, at a minimum, the following information:

   a. General purpose of each section/area within each building *(e.g. "Office Area", "Manufacturing Area", etc.)*;
   b. Location of each hazardous material/waste storage, dispensing, use, or handling area *(e.g. individual underground tanks, aboveground tanks, storage rooms, paint booths, etc.)*. Each area shall be identified by a unique location code number, letter, or name *(e.g. "1", "2", "3"; "A", "B", "C", etc.)*;
   c. Entrances to and exits from each building and hazardous material/waste room/area;
   d. Location of each utility emergency shut-off point *(i.e. gas, water, electric.)*;
   e. Location of each monitoring system control panel *(e.g. underground tank monitoring, toxic gas monitoring, etc.)*.

3. **Map Legend**

| Item and/or Description | Location Code (LC) |
|---|---|
| GAS SHUT OFF | |
| WATER SHUT OFF | |
| ELECTRICAL SHUT OFF | |
| FIRE DEPARTMENT CONNECTION | |
| FIRE HYDRANTS | |
| FUEL BUNKER | |
| PAINT STORAGE BIN | |
| EMERGENCY BIN | |
| PLANT MANAGER STORAGE AREA | |
| FIRE SPLINKERS SHUT OFF | |
| | |
| | |
| | |
| | |
| | |

# Unified Program (UP) Form
# CONSOLIDATED CONTINGENCY PLAN

## SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

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| | ☐ Overpack Drums | | |
| | ☐ Sumps (describe) | | |
| | ☐ Other (describe) | | |
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| | ☑ Intercoms/ PA Systems | | |
| | ☑ Portable Radios | | |
| | ☑ Telephones | | |
| | ☐ Underground Tank Leak Detection Monitors | | |
| | ☐ Other (describe) | | |
| Additional Equipment (Use Additional Pages if Needed.) | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

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***Describe the equipment and its capabilities. If applicable, specify any testing/maintenance procedures/intervals. Attach additional pages, numbered appropriately, if needed.*

## Unified Program (UP) Form
## CONSOLIDATED CONTINGENCY PLAN

## SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

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# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS WASTE GENERATOR

PAGE OF

| BUSINESS NAME: San Pedro High School | | |
|---|---|---|
| FACILITY ID # F A 0 0 0 2 2 4 1 | NO. OF EMPLOYEES: 33b 5 | EPA ID # CAD982022642 |

## I. TYPE OF GENERATOR

PLEASE CHECK THE FOLLOWING BOXES THAT APPLY

| | RCRA GENERATOR (FEDERAL WASTE) | NON-RCRA GENERATOR (CALIFORNIA WASTE ONLY) |
|---|---|---|
| LARGE QUANTITY GENERATOR (>1000 KG HAZARDOUS WASTE PER MONTH) | ☑ | ☑ |
| SMALL QUANTITY GENERATOR (>100 KG BUT <1000 KG HAZARDOUS WASTE PER MONTH) | ☐ | ☐ |
| CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (< 100 KG HAZARDOUS WASTE PER MONTH) | ☐ | ☐ |

## II. WASTE STREAM IDENTIFICATION

PLEASE COMPLETE THE TABLE BELOW. SEE INSTRUCTIONS FOR CODES AND EXPLANATION.

| PROCESS | WASTE DESCRIPTION | WASTE ID | AMOUNT PER YEAR | DISPOSAL METHOD | STORAGE METHOD |
|---|---|---|---|---|---|
| Maintenance | Light bulbs | NA | 228 lbs. | Recycling | |
| Auto shop(shutdo | Hazwaste solid(oily abs,rags) | 223/352 | 320 lbs. | Recycling | |
| Auto shop(shutdo | Clarifier sludge | 223 | 1400 gal. | Treatment | |
| Biology class | Waste formaldehide (specimens) | D001/331 | 340 lbs. | Incineration | |
| Maintenance/auto | Waste flammable liquid | D001/331 | 815 lbs. | Recycling | |
| Science class | Waste caustic alkali | D002/551 | 45 lbs. | Recycling | |
| Maintenance | Waste flammable solid | D001/352 | 200 lbs. | Recycling | |
| Maintenance | Asbestos | 151 | 27 cu. yrds. | Landfill | |
| Auto shop | Used oil | 221 | 50 gal. | Recycling | |
| | | | | | |

*I certify that the information provided herein is true and accurate to the best of my knowledge.*

| OWNER/OPERATOR NAME Jeanette Stevens | OWNER/OPERATOR TITLE Principal |
|---|---|
| OWNER/OPERATOR SIGNATURE Jeanette Stevens | DATE 11/22/2010 |

| OFFICIAL USE ONLY | DATE RECEIVED | REVIEWED BY | |
|---|---|---|---|
| CUPA | PA | DISTRICT | INSPECTOR |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☑ ADD ☐ DELETE ☐ REVISE REPORTING YEAR 2010 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 2 2 4 1

MAP# (optional) 203 See Page 18

GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Waste flammable solid

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME Waste flammable solid 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☑ a. SOLID ☐ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 55 gallons 215

FED HAZARD CATEGORIES (Check all that apply) ☑ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 100 | 200 | 200 | 352 |

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☑ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 60 222

STORAGE CONTAINER [redacted]
☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ h. SILO ☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Waste flammable solid 27 | ☐ Yes ☑ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☑ ADD ☐ DELETE ☐ REVISE REPORTING YEAR 2010 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 2 2 4 1

MAP# (optional) 203 See Page 18

GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Waste caustic alkali (lab pack)

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME Waste caustic alkali (lab pack) 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 20 gallons 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 22 | 45 | 45 | 551 |

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☑ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 60 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Waste caustic alkali (lab pack) 27 | ☐ Yes ☑ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

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| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

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(one page per material per building or area)

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FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203 See Page 18

GRID# (optional) 204

### II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Waste flammable liquid

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME Waste flammable liquid 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 55 gallons 215

FED HAZARD CATEGORIES (Check all that apply) ☑ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 408 | 815 | 815 | 331 |

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☑ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 60 222

STORAGE CONTAINER [redacted]
☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Waste flammable liquid 27 | ☐ Yes ☑ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | | REVIEWED BY | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☑ ADD ☐ DELETE ☐ REVISE REPORTING YEAR 2010 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203 See Page 18

GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Waste formaldehyde/specimens

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME Waste formaldehyde/specimens 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 20 gallons 215

FED HAZARD CATEGORIES (Check all that apply) ☑ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 170 | 340 | 340 | 331 |

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☑ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 60 222

STORAGE CONTAINER ☐ a. ABOVE GROUND TANK ☐ B. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM [redacted] ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER ☐ k. BOX ☐ o. TOE BIN ☐ l. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Waste formaldehyde/specimens 27 | ☐ Yes ☑ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☑ ADD ☐ DELETE ☐ REVISE REPORTING YEAR **2010** 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION 201 [redacted]

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) 202 ☐ Yes ☑ No

FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Clarifier waste**

TRADE SECRET 206 ☐ Yes ☑ No
If Subject to EPCRA, refer to instructions

COMMON NAME **Clarifier waste** 207

EHS* 208 ☐ Yes ☑ No

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) 211 ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) 214 ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS

LARGEST CONTAINER **2000 gallons** 215

FED HAZARD CATEGORIES (Check all that apply) 216 ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 700 | 1400 | 1400 | 223 |

UNITS* (Check one item only) 221 ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS
* If EHS, amount must be in pounds.

DAYS ON SITE: 222 **60**

STORAGE CONTAINER 223
☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE
☐ B. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ d. STEEL DRUM ☐ h. SILO ☐ i. CYLINDER ☐ p. TANK WAGON

STORAGE PRESSURE 224 ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225 ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Clarifier waste 27 | ☐ Yes ☑ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

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|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☑ ADD ☐ DELETE ☐ REVISE REPORTING YEAR 2010 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203 See Page 18

GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Non-RCRA hazardous waste solid

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207 Oily rags and used absorbent

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☑ a. SOLID ☐ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 55 gallons 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 160 | 320 | 320 | 223/352 |

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☑ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 60 222

STORAGE CONTAINER [redacted]
☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Non-RCRA hazardous waste solid 27 | ☐ Yes ☑ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
## HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION
(one page per material per building or area)

☑ ADD ☐ DELETE ☐ REVISE REPORTING YEAR 2010 200 Page of

### I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203 See Page 18

GRID# (optional) 204

### II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Spent fluorescent lights

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME Spent fluorescent lights 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARDOUS CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☑ a. SOLID ☐ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 0.5 cubic yards 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 114 | 228 | 228 | N/A |

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☑ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 60 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ B. UNDERGROUND TANK ☐ f. CAN ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ o. TOE BIN
☐ d. STEEL DRUM ☐ h. SILO ☐ p. TANK WAGON 223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Spent fluorescent lights 27 | ☐ Yes ☐ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☑ DELETE ☐ REVISE REPORTING YEAR 2010 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203: See Page 18

GRID# (optional) 204: D11

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205: Chemical waste

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME Chemical waste 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 5 gallons 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 0 | 0 | 0 | |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 0 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE [redacted]
☐ B. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTL
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ d. STEEL DRUM ☐ h. SILO ☐ i. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Chemical waste 27 | ☐ Yes ☑ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☑ DELETE ☐ REVISE REPORTING YEAR 2010 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203 See Page 18

GRID# (optional) 204

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Spent photo chemical containing silver

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME Spent fixer / developer 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 15 gallons 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 0 | 0 | 0 | |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 0 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Spent photo chemical containing silver 27 | ☐ Yes ☑ No 228 | 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR 2010 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A - 0 0 0 - 2 2 4 1

MAP# (optional) 203: See Page 18

GRID# (optional) 204: B9

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205: XS-100 Stripper

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207: Floor stripper Gorm

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☑ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 1 gallon 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 25 gallons | 55 gallons | NA | NA |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 365 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 2 226 | 2-Butoxyethanol 27 | ☐ Yes ☑ No 228 | 111-76-2 229 |
| 1 230 | Sodium hydroxide 31 | ☐ Yes ☑ No 232 | 1310-73-2 233 |
| 3 234 | Monoethanolamine 35 | ☐ Yes ☑ No 236 | 141-43-5 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
## HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR 2010 200 Page of

### I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203 See Page 18

GRID# (optional) 204

### II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Waste Asbestos

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to Instructions

COMMON NAME Waste Asbestos 207

EHS* ☐ Yes ☑ No 208

CAS# na 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☑ a. SOLID ☐ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 40 cubic yard [redacted] 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 13 | 27 | 27 | 151 |

UNITS* (Check one item only) ☐ a. GALLONS ☑ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 60 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE
☐ B. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ d. STEEL DRUM ☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON
[redacted] 223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Waste Asbestos 27 | ☐ Yes ☑ No 228 | na 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | | REVIEWED BY | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR 2010 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 2 2 4 1

MAP# (optional) 203: See Page 18

GRID# (optional) 204: B9

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205: Contender finish (Part A&B)-Hillyard

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207: Gym finishing

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☑ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 5-gallon 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 45 | 100 | NA | NA |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 365 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ l. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☑ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 9-14 226 | Propylene glycol monomethyl ether 1 (Part A) 27 | ☐ Yes ☑ No 228 | 107-98-2 229 |
| <1 230 | Aminated acrylic polymer-chloride@bromide salt (A) 31 | ☐ Yes ☑ No 232 | 103051-70-3 233 |
| 4-8 234 | Gamma-butyrolactone-1 (Part B) 35 | ☐ Yes ☑ No 236 | 96-48-0 237 |
| <1 238 | Reaction products Epichlorohydrin&Bisphenol (B) 39 | ☐ Yes ☑ No 240 | 25085-99-9 241 |
| 1-5 242 | Benzyl alcohol -2 (Part B) 43 | ☐ Yes ☑ No 244 | 100-51-6 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☑ ADD ☐ DELETE ☐ REVISE REPORTING YEAR 2010 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A [redacted] 0 0 0 [redacted] 2 2 4 1

MAP# (optional) 203: See Page 18

GRID# (optional) 204: A-9

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205: Used oil

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207: Used oil

EHS* ☐ Yes ☑ No 208

CAS# 209: na

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☑ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 55-gallon 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 25 | 50 | 50 | 221 |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 60 222

STORAGE CONTAINER [redacted]
☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Used oil 27 | ☐ Yes ☑ No 228 | na 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
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# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR 2010 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
**San Pedro High School**

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204 **B9**

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
**Super Polymer 85 - Maintex**

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Floor wax** 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☑ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **5-gallon** 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 150 | 90 | NA | NA |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 222 **365**

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ l. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| <8 226 | Glycol Ether DE 27 | ☐ Yes ☑ No 228 | 111-90-0 229 |
| <3 230 | Tributoxymethyl Phosphate 31 | ☐ Yes ☑ No 232 | 78-51-3 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
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|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR 2010 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203: See Page 18

GRID# (optional) 204: B8

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205: Water base Paint

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME Paint 207

EHS* ☐ Yes ☑ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☑ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 5 Gallons 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 100 | 150 | NA | NA |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 365 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK
☐ B. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
[redacted]
☐ l. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ k. BOX ☐ o. TOE BIN
☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 1 226 | Ethylene glycol 27 | ☐ Yes ☑ No 228 | 107-21-1 229 |
| 230 | 31 | ☐ Yes ☑ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
## HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR 2010 200 Page of

### I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1

MAP# (optional) 203: See Page 18

GRID# (optional) 204: C-8

### II. CHEMICAL INFORMATION

CHEMICAL NAME 205: Diesel Fuel

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME Diesel Fuel 207

EHS* ☐ Yes ☑ No 208

CAS# 437986-25-09 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 3 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☑ a. PURE ☐ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 55 gallon 215

FED HAZARD CATEGORIES (Check all that apply) ☑ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 215

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 30 | 55 | N/A | N/A |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 365 222

STORAGE CONTAINER [redacted]
☐ e. PLASTIC/NONMETALLIC DRUM ☐ l. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ h. SILO ☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 100 226 | Diesel 27 | ☐ Yes ☑ No 228 | 437986-25-09 229 |
| 230 | 31 | ☐ Yes ☐ No 232 | 233 |
| 234 | 35 | ☐ Yes ☐ No 236 | 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | REVIEWED BY | | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

# UNIFIED PROGRAM (UP) FORM
# HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR 2010 200 Page of

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
San Pedro High School

CHEMICAL LOCATION [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 0 2 2 4 1 MAP# (optional) 203 See Page 18 GRID# (optional) 204 C-8

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Gasoline

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME Gasoline 207

EHS* ☐ Yes ☑ No 208

CAS# 8006-61-9 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 3 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☑ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 55 gallon 215

FED HAZARD CATEGORIES (Check all that apply) ☑ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 220 |
|---|---|---|---|
| 55 | 110 | N/A | N/A |

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 365 222

STORAGE CONTAINER [redacted]
☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # |
|---|---|---|---|
| 12 226 | Toluene 27 | ☐ Yes ☑ No 228 | 108-88-3 229 |
| 11 230 | Xylene 31 | ☐ Yes ☑ No 232 | 1330-20-7 233 |
| 5 234 | Benzene 35 | ☐ Yes ☑ No 236 | 71-43-2 237 |
| 238 | 39 | ☐ Yes ☐ No 240 | 241 |
| 242 | 43 | ☐ Yes ☐ No 244 | 245 |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
*(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)*

| OFFICIAL USE ONLY | | DATE RECEIVED | | | REVIEWED BY | |
|---|---|---|---|---|---|---|
| DIV | BN | STA | OTHER | DISTRICT | CUPA | PA |

City of LOS ANGELES
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LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0002241
Business Name: LAUSD - SAN PEDRO HIGH SCHOO
Business Mailing Address: 333 S BEAUDRY AVE 28TH
LOS ANGELES, CA 90017
Storage Address: 1001 W 15TH ST

Date:
Last Inspection Date: 04/19/2012
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

| Chemical & Ingredients | Haz. Mat. Type | Max. Qnt on hand: | Yearly Qnt | Product Storage Type | Physical State |
|---|---|---|---|---|---|
| - | | 0 | 0 | | |
| WD-40(In-active)<br>Inactivated on: 11/09/1992 | a | 120 | | | |

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|---|---|---|---|---|---|
| - | | 0 | 0 | | |
| ALL PURPOSE CLEANER(In-active)<br>Inactivated on: 11/09/1992 | a | 40 | | | |
| - | | 0 | 0 | | |
| BORAX HAND SOAP(In-active)<br>Inactivated on: 11/09/1992 | a | 250 | | | |
| - | | 0 | 0 | | |
| BORAXO AND LURON(In-active)<br>Inactivated on: 11/09/1992 | a | 400 | | | |

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|---|---|---|---|---|---|
| - | | 0 | 0 | | |
| CARPET CLEANER(In-active)<br>Inactivated on: 11/09/1992 | a | 4 | | | |
| - | | 0 | 0 | | |
| CLEANSER(In-active)<br>Inactivated on: 11/09/1992 | a | 480 | | | |
| - | | 0 | 0 | | |
| DDC(In-active)<br>Inactivated on: 11/09/1992 | a | 10 | | | |

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|---|---|---|---|---|---|
| - | | 0 | 0 | | |
| DDC (CLEANER)(In-active)<br>Inactivated on: 02/22/1996 | a | 84 | 84 | | b |
| - | | 0 | 0 | | |
| ENAMEL THINNER(In-active)<br>Inactivated on: 11/20/1995 | a | 50 | 150 | | b |
| - | | 0 | 0 | | |
| HAND SOAP(In-active)<br>Inactivated on: 11/09/1992 | a | 25 | | | |

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RFI Requestor Name:

| Chemical & Ingredients | Haz. Mat. Type | Max. Qnt on hand: | Yearly Qnt | Product Storage Type | Physical State |
|---|---|---|---|---|---|
| - | | 0 | 0 | | |
| INTERIOR ACRYLIC LATEX(In-active)<br>Inactivated on: 11/09/1992 | a | 2 | | | |
| - | | 0 | 0 | | |
| KWIK STRIP(In-active)<br>Inactivated on: 11/09/1992 | a | 50 | | | |
| - | | 0 | 0 | | |
| LAC MOTOR OIL(In-active)<br>Inactivated on: 11/09/1992 | a | 40 | 40 | | |

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| Chemical & Ingredients | Haz. Mat. Type | Max. Qnt on hand: | Yearly Qnt | Product Storage Type | Physical State |
|---|---|---|---|---|---|
| - | | 0 | 0 | | |
| LAC MOTOR OIL(In-active)<br>Inactivated on: 06/12/2000 | a | 200 | | | b |
| - | | 0 | 0 | | |
| LAC-O-RITE(In-active)<br>Inactivated on: 11/09/1992 | a | 5 | | | |
| - | | 0 | 0 | | |
| LACQUER THINNER(In-active)<br>Inactivated on: 11/09/1992 | a | 20 | | | |

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|---|---|---|---|---|---|
| - | | 0 | 0 | | |
| MISTCLEN(In-active)<br>Inactivated on: 03/11/1993 | a | 60 | | | |
| - | | 0 | 0 | | |
| OXYGEN(In-active)<br>Inactivated on: 04/19/2012 | a | 220 | | | c |
| - | | 0 | 0 | | |
| SANI-TROL(In-active)<br>Inactivated on: 11/09/1992 | a | 300 | | | |

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| Chemical & Ingredients | Haz. Mat. Type | Max. Qnt on hand: | Yearly Qnt | Product Storage Type | Physical State |
|---|---|---|---|---|---|
| - | | 0 | 0 | | |
| TILE CLEANER(In-active)<br>Inactivated on: 11/20/1995 | a | 115 | 115 | | b |
| - | | 0 | 0 | | |
| UNI-KLEEN(In-active)<br>Inactivated on: 03/11/1993 | a | 250 | | | |
| - | | 0 | 0 | | |
| USED MOTOR OIL(In-active)<br>Inactivated on: 04/19/2012 | c | 55 | | | b |

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|---|---|---|---|---|---|
| - | | 0 | 0 | | |
| WASTE OIL(In-active)<br>Inactivated on: 06/12/2000 | c | 55 | 55 | | b |
| - | | 0 | 0 | | |
| WD-40(In-active)<br>Inactivated on: 11/09/1992 | a | 120 | | | |
| DIESEL | b | 55 | | | b |
| -<br>- | | 0 | 0 | | |

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|---|---|---|---|---|---|
| GASOLINE | b | 110 | | | b |
| - | | 0 | 0 | | |
| - | | | | | |
| LATEX PAINT | b | 600 | | | b |
| - | | 0 | 0 | | |
| - | | | | | |
| - | | 0 | 0 | | |
| ALL PURPOSE CLEANER(In-active)<br>Inactivated on: 11/09/1992 | a | 40 | | | |

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|---|---|---|---|---|---|
| - | | 0 | 0 | | |
| BORAX HAND SOAP(In-active)<br>Inactivated on: 11/09/1992 | a | 250 | | | |
| - | | 0 | 0 | | |
| BORAXO AND LURON(In-active)<br>Inactivated on: 11/09/1992 | a | 400 | | | |
| - | | 0 | 0 | | |
| CARPET CLEANER(In-active)<br>Inactivated on: 11/09/1992 | a | 4 | | | |

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|---|---|---|---|---|---|
| - | | 0 | 0 | | |
| CLEANSER(In-active)<br>Inactivated on: 11/09/1992 | a | 480 | | | |
| - | | 0 | 0 | | |
| DDC(In-active)<br>Inactivated on: 11/09/1992 | a | 10 | | | |
| - | | 0 | 0 | | |
| DDC (CLEANER)(In-active)<br>Inactivated on: 02/22/1996 | a | 84 | 84 | | b |

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|---|---|---|---|---|---|
| - | | 0 | 0 | | |
| ENAMEL THINNER(In-active)<br>Inactivated on: 11/20/1995 | a | 50 | 150 | | b |
| - | | 0 | 0 | | |
| HAND SOAP(In-active)<br>Inactivated on: 11/09/1992 | a | 25 | | | |
| - | | 0 | 0 | | |
| INTERIOR ACRYLIC LATEX(In-active)<br>Inactivated on: 11/09/1992 | a | 2 | | | |

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|---|---|---|---|---|---|
| - | | 0 | 0 | | |
| KWIK STRIP(In-active)<br>Inactivated on: 11/09/1992 | a | 50 | | | |
| - | | 0 | 0 | | |
| LAC MOTOR OIL(In-active)<br>Inactivated on: 11/09/1992 | a | 40 | 40 | | |
| - | | 0 | 0 | | |
| LAC MOTOR OIL(In-active)<br>Inactivated on: 06/12/2000 | a | 200 | | | b |

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| Chemical & Ingredients | Haz. Mat. Type | Max. Qnt on hand: | Yearly Qnt | Product Storage Type | Physical State |
|---|---|---|---|---|---|
| - | | 0 | 0 | | |
| LAC-O-RITE(In-active)<br>Inactivated on: 11/09/1992 | a | 5 | | | |
| - | | 0 | 0 | | |
| LACQUER THINNER(In-active)<br>Inactivated on: 11/09/1992 | a | 20 | | | |
| - | | 0 | 0 | | |
| MISTCLEN(In-active)<br>Inactivated on: 03/11/1993 | a | 60 | | | |

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|---|---|---|---|---|---|
| - | | 0 | 0 | | |
| OXYGEN(In-active)<br>Inactivated on: 04/19/2012 | a | 220 | | | c |
| - | | 0 | 0 | | |
| SANI-TROL(In-active)<br>Inactivated on: 11/09/1992 | a | 300 | | | |
| - | | 0 | 0 | | |
| TILE CLEANER(In-active)<br>Inactivated on: 11/20/1995 | a | 115 | 115 | | b |

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|---|---|---|---|---|---|
| - | | 0 | 0 | | |
| UNI-KLEEN(In-active)<br>Inactivated on: 03/11/1993 | a | 250 | | | |
| - | | 0 | 0 | | |
| USED MOTOR OIL(In-active)<br>Inactivated on: 04/19/2012 | c | 55 | | | b |
| - | | 0 | 0 | | |
| WASTE OIL(In-active)<br>Inactivated on: 06/12/2000 | c | 55 | 55 | | b |

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|---|---|---|---|---|---|
| - | | 0 | 0 | | |
| WD-40(In-active)<br>Inactivated on: 11/09/1992 | a | 120 | | | |

## Joan Greenwood

**From:** Nager, Jay <jay.nager@lausd.net>
**Sent:** Tuesday, May 24, 2016 11:16 AM
**To:** Joan Greenwood
**Cc:** Natalia Guerra; Jeff Bannon; Keefe, Thomas; Boudiaf, Soufiane
**Subject:** RE: Questions: San Pedro High School Phase I ESA

Joan,
Responses to your questions are below in blue.

Thanks,

Jay Nager
Complex Project Manager
San Pedro/Carson Complex
Tel: (310)808-1510, Fax: (310)324-6223, Cell: (310)864-9563.
17729 South Figueroa St.
Gardena, Ca 90248

**From:** Joan Greenwood [mailto:jgreenwood@csceng.com]
**Sent:** Tuesday, May 24, 2016 9:26 AM
**To:** Nager, Jay <jay.nager@lausd.net>
**Cc:** Natalia Guerra <NGuerra@csceng.com>; Jeff Bannon <jbannon@csceng.com>
**Subject:** Questions: San Pedro High School Phase I ESA
**Importance:** High

Good morning, Mr. Nager -

Mr. Esparza indicated that you would be able to address for the following questions regarding use and disposal of hazardous materials at San Pedro High School. They are based on my review of the Uniformed Program Hazardous Waste Generator and the Consolidated Contingency Plan submitted to the Los Angeles County Fire Department in 2010 and 2012.

1. In 2009, approximately 6 tons of unspecified oily waste was removed for disposal . Do you know the source of this oily waste? This item is associated with SRHS15 (Olguin Campus) construction. Mr. Boudiaf can give you more info.
2. Do you have any knowledge of any quantities of chlorinated solvent usage on campus for degreasing metal parts or as a solvent associated with a spray booth? This item is associated with SRHS15 (Olguin Campus) construction. Mr. Boudiaf can give you more info.
3. Has school caulking been tested for PCBs? No. It is assumed to contain PCB.
4. Are there any lifts or transformers on campus that are suspected of containing PCBs in the hydraulic fluids? PBC manufacturing ceased in 1979? Auto Shop lifts may contain PCB.
5. What is currently in the "Gas Bunker" and is there any evidence of leakage? Gasoline, and diesel fuel. No evidence of leaking.
6. Prior to the installation of the natural gas boilers, what fuel was used to heat the buildings? Natural Gas.
7. If fuel oil was used to heat the buildings, was it in aboveground or underground tanks? N/A
8. Were these tanks indoors or outdoors? N/A
9. Do any of the building cooling or refrigeration systems require the use and disposal of CFCs (chlorofluorcarbons) by LAUSD staff? Yes. A/C units at San Pedro HS contain CFC.

10. Are the fluids in the cooling systems maintained by LAUSD staff or a third party? LAUSD.
11. How many years have you been associated with this campus and what year did you start? 9 years. 2006.

Thank you very much. Please call me if you would like to answer these questions over the phone. My number is (562) 435-8080.

Best regards,
Joan Greenwood
Senior Environmental Project Manager

Clark Seif Clark, Inc. (CSC)
110 Pine Avenue, Suite 925, Long Beach, CA 90802
tel 562-435-8080 fax 562-590-8795
e-mail jgreenwood@csceng.com
www.csceng.com




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## Joan Greenwood

**From:** Nager, Jay <jay.nager@lausd.net>
**Sent:** Tuesday, May 24, 2016 11:22 AM
**To:** Joan Greenwood
**Cc:** Jeff Bannon; Natalia Guerra; Keefe, Thomas; Boudiaf, Soufiane
**Subject:** RE: Clarifier Operation: San Pedro High School

Joan,

M&O S2 plumbing does not have any info on the clarifiers at San Pedro HS campus.
No clarifiers have backed up at San Pedro HS in last 9 years, and no sludge have been removed.

Thanks,

Jay Nager
Complex Project Manager
San Pedro/Carson Complex
Tel: (310)808-1510, Fax: (310)324-6223, Cell: (310)864-9563.
17729 South Figueroa St.
Gardena, Ca 90248

---

**From:** Joan Greenwood [mailto:jgreenwood@csceng.com]
**Sent:** Tuesday, May 24, 2016 11:08 AM
**To:** Nager, Jay <jay.nager@lausd.net>
**Cc:** Jeff Bannon <jbannon@csceng.com>; Natalia Guerra <NGuerra@csceng.com>; Keefe, Thomas <thomas.keefe@lausd.net>; Boudiaf, Soufiane <soufiane.boudiaf@lausd.net>
**Subject:** RE: Clarifier Operation: San Pedro High School

Hi, again

The Main Campus is the focus of this Phase I Environmental Site Assessment. Could you provide a brief description of the clarifier infrastructure present on the Main Campus and its location. Has the sludge been removed?

---

**From:** Nager, Jay [mailto:jay.nager@lausd.net]
**Sent:** Tuesday, May 24, 2016 10:43 AM
**To:** Joan Greenwood
**Cc:** Jeff Bannon; Natalia Guerra; Keefe, Thomas; Boudiaf, Soufiane
**Subject:** RE: Clarifier Operation: San Pedro High School

Joan,

I believe the auto shop and clarifier you are referring to is from decommissioned Auto Shop at Fort Macarthur.
Olguin Campus Is now build on that site.
Olguin Campus is part of the San Pedro HS but it is located 2 miles away from the Main Campus.

Mr. Boudiaf from New Construction may be able to help you with details about Olguin Campus project (SRHS15).

Main Campus auto shop has not been decommissioned, and clarifier has not been removed.

Thanks,

Jay Nager
Complex Project Manager
San Pedro/Carson Complex
Tel: (310)808-1510, Fax: (310)324-6223, Cell: (310)864-9563.
17729 South Figueroa St.
Gardena, Ca 90248

---

**From:** Joan Greenwood [mailto:jgreenwood@csceng.com]
**Sent:** Tuesday, May 24, 2016 10:13 AM
**To:** Nager, Jay <jay.nager@lausd.net>
**Cc:** Jeff Bannon <jbannon@csceng.com>; Natalia Guerra <NGuerra@csceng.com>
**Subject:** Calrifier Operation: San Pedro High School
**Importance:** High

Could you provide me with a brief description of the clarifier that appears to have been decommissioned *circa* 2009. It was associated with the shutdown of the Auto Shop Program. Need to know location of the clarifier and whether or not any samples were taken from the soil when it was removed. Thank you.

Best regards,
Joan Greenwood
Senior Environmental Project Manager

Clark Seif Clark, Inc. (CSC)
110 Pine Avenue, Suite 925, Long Beach, CA 90802
tel 562-435-8080 fax 562-590-8795
e-mail jgreenwood@csceng.com
www.csceng.com

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## Joan Greenwood

**From:** Nager, Jay <jay.nager@lausd.net>
**Sent:** Tuesday, May 24, 2016 10:43 AM
**To:** Joan Greenwood
**Cc:** Jeff Bannon; Natalia Guerra; Keefe, Thomas; Boudiaf, Soufiane
**Subject:** RE: Clarifier Operation: San Pedro High School

Joan,

I believe the auto shop and clarifier you are referring to is from decommissioned Auto Shop at Fort Macarthur.
Olguin Campus Is now build on that site.
Olguin Campus is part of the San Pedro HS but it is located 2 miles away from the Main Campus.

Mr. Boudiaf from New Construction may be able to help you with details about Olguin Campus project (SRHS15).

Main Campus auto shop has not been decommissioned, and clarifier has not been removed.

Thanks,

Jay Nager
Complex Project Manager
San Pedro/Carson Complex
Tel: (310)808-1510, Fax: (310)324-6223, Cell: (310)864-9563.
17729 South Figueroa St.
Gardena, Ca 90248

---

**From:** Joan Greenwood [mailto:jgreenwood@csceng.com]
**Sent:** Tuesday, May 24, 2016 10:13 AM
**To:** Nager, Jay <jay.nager@lausd.net>
**Cc:** Jeff Bannon <jbannon@csceng.com>; Natalia Guerra <NGuerra@csceng.com>
**Subject:** Calrifier Operation: San Pedro High School
**Importance:** High

Could you provide me with a brief description of the clarifier that appears to have been decommissioned *circa* 2009. It was associated with the shutdown of the Auto Shop Program. Need to know location of the clarifier and whether or not any samples were taken from the soil when it was removed. Thank you.

Best regards,

Joan Greenwood
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## Joan Greenwood

**From:** Nager, Jay <jay.nager@lausd.net>
**Sent:** Tuesday, May 24, 2016 3:34 PM
**To:** Joan Greenwood
**Subject:** RE: Electrical Vault and Transformers

Joan,

This is the response from our Electrical Supervisor Ron Perry:

"The vault was used for DWP transformers and electrical equipment powering the San Pedro SH facility. The transformers and the equipment was abandoned around 1997-2000 when the new electrical service was installed alongside the Girls Gym Building. I have no idea whether the abandoned transformers contain asbestos. Joan could contact DWP; they may have some info pertaining to those transformers."

Thanks,

Jay Nager
Complex Project Manager
San Pedro/Carson Complex
Tel: (310)808-1510, Fax: (310)324-6223, Cell: (310)864-9563.
17729 South Figueroa St.
Gardena, Ca 90248

---

**From:** Joan Greenwood [mailto:jgreenwood@csceng.com]
**Sent:** Tuesday, May 24, 2016 11:16 AM
**To:** Nager, Jay <jay.nager@lausd.net>
**Subject:** Electrical Vault and Transformers

There is a vault in the Main Administration Building with electrical transformers. It is my understanding that these transformers **are not** currently in use. To the best of your knowledge, are there any labels on these transformers indicating the absence of PCBs associated with the use of these transformers. After PCB manufacturing ceased in 1979, there was supposed to be a label on equipment stating whether or not the transformer is PCB-free. Was LAUSD or a third party such as SCE responsible for the operation and maintenance of these transformers. Thanks.

Best regards,

Joan Greenwood
Senior Environmental Project Manager

Clark Seif Clark, Inc. (CSC)
110 Pine Avenue, Suite 925, Long Beach, CA 90802
tel 562-435-8080 fax 562-590-8795
e-mail jgreenwood@csceng.com
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# F-2 Asbestos Engineering Assessment

CNS ENVIRONMENTAL, INC.

To:
Mr. Gus Neri
Los Angeles Unified School District
Facilities Environmental Technical Unit
1240 South Naomi Avenue
Los Angeles, California 90021

Mr. Ishak Japar
Los Angeles Unified School District
Facilities Environmental Technical Unit
1240 South Naomi Avenue
Los Angeles, California 90021

ASBESTOS ENGINEERING ASSESSMENT
San Pedro High School #8850
1001 West 15th Street
San Pedro, California 90731
Comprehensive Modernization Project Colin#:10366808
Work Order#: 26044551
Contract #: 4400002050 (1390016)

CNS Environmental Project Number: 16-012

Date Prepared: April 5, 2016
Revised: May 23, 2016

Edward D. Spinney, CAC #00-2795

For Glenn Colquitt
Glenn Colquitt, CSST #14-5219

650 North Rose Drive, Suite 616
Placentia, California 92870
Phone #: (714) 525-5115
Fax #: (714) 526-5445

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**Appendices**

Appendix A Analytical Results from Samples

Appendix B Asbestos Survey Form A

Appendix C Consultant's Certifications

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# Los Angeles Unified School District
## Facilities Services Division

Los Angeles Unified School District
FACILITIES SERVICES DIVISION

**OFFICE OF THE SUPERINTENDENT** **FACILITIES SERVICES DIVISION**

June 8, 2016

Mr. Ed Spinney
CNS Environmental, Inc.
650 North Rose Drive #616
Placentia, CA 92870

**RE: PHASE __I__ REVIEW AND APPROVAL FOR ASBESTOS __X__ and/or LEAD _____**

The ATU has reviewed and approved the report(s) indicated above for the following project:

Date of Report: May 23, 2016 (draft ) FETU Work Order No. 26044551

School: San Pedro High School (School Code # 8850 )

Project: Comprehensive Modernization Project Project No. 10366808

If you have any questions regarding this approval, please call me at (213) 745-1477.

Sincerely,

Gus Neri, CAC
Reviewing Senior
Facilities Environmental Technical Unit

c: I. Japar
J. Ellis

File

NOTICE TO REQUESTOR:

Review of Phase I report(s) indicates that Phase II is:

- ☑ required for Asbestos
- ☐ not required for Asbestos
- ☐ not required for Asbestos; however, Phase III and compliance with Section 02 8213 are required.
- ☐ required for Lead
- ☐ not required for Lead
- ☑ not required for Lead; however, Phase III and compliance with Section 02 8333 are required.

**LIST OF ACRONYMS**
**for Asbestos**

| | |
|---|---|
| **ACM** | Asbestos-Containing Material |
| **ACBM** | Asbestos-Containing Building Material |
| **ACCM** | Asbestos-Containing Construction Material (California only) |
| **AHERA** | Asbestos Hazard Emergency Response Act |
| **CAC** | California Asbestos Consultant |
| **Cal/OSHA** | California Division of Occupational Safety and Health |
| **CCR** | California Code of Regulations |
| **CSST** | California Site Surveillance Technician |
| **CFR** | Code of Federal Regulations |
| **EPA** | Environmental Protection Agency |
| **FETU** | Facilities Environmental Technical Unit (LAUSD) |
| **HEPA** | High Efficiency Particulate Air |
| **HVAC** | Heating, Ventilation, and Air Conditioning |
| **LAUSD** | Los Angeles Unified School District |
| **NEA** | Negative Exposure Assessment |
| **NESHAP** | National Emission Standards for Hazardous Air Pollutants |
| **OEHS** | Office of Environmental Health & Safety (LAUSD) |
| **PEL** | Permissible Exposure Limit |
| **PLM** | Polarized Light Microscopy |
| **RACM** | Regulated Asbestos-Containing Material |
| **SCAQMD** | South Coast Air Quality Management District |

## LIST OF DEFINITIONS
## for Asbestos

**Abatement:** Control/elimination of asbestos through operations and maintenance, repair, enclosure, encapsulation, or removal.

**Amended Water:** Water to which a surfactant (wetting agent) has been added to increase the ability of the liquid to penetrate ACM.

**Asbestos:** Asbestiform varieties of Chrysotile (serpentine), crocidolite (riebeckite), amosite (cummingtonitegrunerite), anthophyllite tremolite, and actinolite.

**Asbestos-Containing Material (ACM):** Material or product containing more than one percent (1%) asbestos

**Asbestos-Containing Building Material (ACBM):** Surfacing ACM, thermal system insulation ACM, or miscellaneous ACM that is found in or on interior structural members or other parts of a school building.

**Asbestos-Containing Construction Material (ACCM):** For California only. Manufactured construction material that contains more than one-tenth of one percent (0.1%) asbestos by weight.

**Building ID Number or Code:** Six-digit alphanumeric identification code assigned to each building on a site; sometimes referred to as the insurance code, ID number, or other similar terms.

**District:** The Los Angeles Unified School District and its representatives.

**Friable:** Used in reference to a school building material which, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure.

**High Efficiency Particulate Air (HEPA):** Filter or system capable of removing particulates of 0.3 microns or larger from air at 99.97 percent or greater efficiency.

**Nonfriable:** Used in reference to a school building material which, when dry, may not be crumbled, pulverized, or reduced to powder by hand pressure.

**Plasticize:** To cover floors, ceilings, and walls with plastic (polyethylene) sheeting.

**Regulated Area:** Area established by the employer (abatement contractor) to demarcate where asbestos work is conducted, and by the adjoining area where debris and waste from such asbestos work accumulate; a work area within which airborne concentrations of asbestos exceed or may exceed (with reasonable possibility) the permissible exposure limit.

## I. Executive Summary, Introduction, Purpose, and Scope of Services

This Asbestos Engineering Assessment Report has been prepared by CNS Environmental, Inc., (CNS) for the upcoming renovation at the San Pedro High School #8850, Buildings 001CBJ, 002BAJ, 003BCJ, 004BDJ, 005BCJ, 006CBJ, 010DAP, 013BCP, 014DAP, 015DCS, 264187, A2241Y, A2281Z, P0340K, X0244K, X0347L, X1007M, X2082P, X2383P, X2384P and Z0182S, located at 1001 West 15th Street, San Pedro, California 90731.

The Asbestos Engineering Assessment Report was requested by Mr. Gus Neri of the Los Angeles Unified School District (LAUSD) Facilities Environmental Technical Unit on January 3, 2011. The Asbestos Engineering Assessment was performed on February 23, 2016 and on May 10, 2016 by Mr. Glenn Colquitt, a California Division of Occupational Safety and Health, Certified Site Surveillance Technician, (#14-5219).

Purpose:

CNS was contacted to review the project addressed in this report to determine the impact the project will have on asbestos and lead containing materials during the demolition, renovation, and construction activities. This report addresses these impacts and provides recommendation for appropriate handling and abatement (where required) of these materials.

Scope of Services:

CNS reviewed the Scope of Work as well as Drawings and Specification (where provided) to identify the extent of the project including, but not limited to, the buildings, rooms, and spaces in or on the buildings, and surfaces and materials to be impacted. The Asbestos Management Plan for the site was reviewed to determine if the existing buildings, rooms, spaces, and materials had been tested and if these contained asbestos. A field inspection was conducted to determine the condition of the asbestos-containing building materials and to verify that all materials to be impacted were identified in the Asbestos Management Plan. When materials to be impacted were identified on site but not included in the Asbestos Management Plan and material in the Asbestos Management Plan were assumed to be asbestos-containing or if the materials listed as non-ACBM could not be substantiated by sample results in the Plan or the FETU files, then additional samples were collected and the results are incorporated in this report.

Recommendations are also provided for the appropriate handling and abatement (where required) of the impacted ACBM.

## II. Scope of Work

The asbestos engineering assessment performed was limited only to the areas involved in, and building materials impacted by the scope of work for the above referenced project.

The following buildings are impacted by the scope of work:

Building #1, Industrial Arts Building (001CBJ)
Building to be demolished

Building #2, Auditorium Building (002BAJ)
Building to be renovated based on survey findings

Building #3, Home Economics Building (003BCJ)
Building to be gutted based on survey findings

Building #4, Admin & Classroom Building (004BDJ)
Building to be gutted based on survey findings

Building #5, Classroom Building #1 (005BCJ)
Building to be gutted based on survey findings

Building #6, P.E. Building (006CBJ)
Building to be renovated based on survey findings

Building #7, Girl's Gymnasium (010DAP)
Building to be renovated based on survey findings

Building #8, Classroom Building #2 (013BCP)
Building to be renovated based on survey findings

Building #9, Food Services (014DAP)
Building to be demolished

Building #10, Shop Building (015DCS)
Building to be demolished

Building #11, Gymnasium (264187)
Partial renovations

Building #12, Standard Relocatable Building (A2241Y)
Building to be demolished

Building #13, Standard Relocatable Building (A2281Z)
Building to be demolished

Building #14, Lunch Shelter (P0340K)
Building to be demolished

Building #15, 2/3 Relocatable Building (X0244K)
Building to be demolished

Building #16, 2/3 Relocatable Building (X0347L)
Building to be demolished

Building #17, 2/3 Relocatable Building (X1007M)
Building to be demolished

Building #18, 2/3 Relocatable Building (X2082P)
Building to be demolished

Building #19, 2/3 Relocatable Building (X2383P)
Building to be demolished

Building #20, 2/3 Relocatable Building (X2384P)
Building to be demolished

Building #21, Two Story Relocatable Building (Z0182S)
Building to be demolished

The project will involve and renovation of buildings 002BAJ, 003BCJ, 004BDJ, 005BCJ, 006CBJ, 010DAP, 013BCP, and 264187 based on a full survey's finding. Buildings 001CBJ, 014DAP, 015DCS, A2242Y, A2281Z, P0340K, X0244K, X0347L, X1007M, X2083, X2383P, X2384P, and Z0182S will be demolished.

## III. Visual Survey, Sampling Methodology, and Analytical Procedures

VISUAL SURVEY:

A visual survey consisting of a walkthrough and visual inspection of the project area was conducted to determine the presence of suspect materials that were accessible and/or exposed in the areas that may be disturbed during the project. This included the identification of suspect asbestos containing building components and the determination of the condition of those components.

SAMPLING METHODOLOGY:

Samples were collected under the supervision of a California Certified Asbestos Consultant following AHERA protocol. Selected samples of exposed and/or accessible materials were identified as suspect materials that are commonly found to contain asbestos, which include Surfacing Materials, Thermal System Insulation, and Miscellaneous Materials. Flooring samples were taken by a coring method. The coring method involves using a drill attached with a core bit to take a representative sample of all layers until all layers have been penetrated. The EPA 3-5-7 Rule was used when sampling Surfacing Materials and three samples were taken from each suspect Thermal System Insulation and Miscellaneous Material that might be affected by the proposed work to be performed. Suspect materials were grouped into homogenous sampling areas, which were limited in area to within a structure as defined by the six-digit building identification code. At the time of sampling, the location and condition (friable or non-friable) of the material was noted.

ANALYTICAL PROCEDURES:

The bulk samples were analyzed by Polarized Light Microscopy (PLM), with dispersion staining as described by the interim method of the determination of asbestos in bulk insulation, Federal Register, Volume 47, No. 103, May 27, 1982. This is a standard method of analysis in optical mineralogy and the currently accepted method for the determination of asbestos in bulk samples. A suspect material is immersed in a solution of known refractive index and subjected to illumination by polarized light. The characteristic color display results enable mineral identification. It should be noted that some asbestos containing materials might not be accurately identified and/or quantified by PLM. As an example, the original fabrication of vinyl floor tiles routinely involved milling of asbestos fibers to extremely small sizes. As a result, these fibers may go undetected under the standard polarized light microscopy method. Transmission Electron Microscopy (TEM) may be necessary for a more definitive analysis of these materials.

A material is considered to be asbestos-containing if at least one sample collected from the area shows asbestos present in an amount greater than one-tenth of one percent by weight (>0.1%). Asbestos-containing materials are regulated by federal, state, and local agencies.

The EPA National Emission Standards for Hazardous Air Pollutants (NESHAP) requires an inspection for asbestos be done on facilities which are to undergo demolition or renovation work.

Materials found to contain asbestos may need to be removed prior to the start of such demolition/renovation work.

## IV. Discussion of Survey Findings and Recommendations

Asbestos containing materials were found in the buildings. The tables below include materials that are anticipated to be impacted during the project.

CNS Environmental's findings are as follows:

A. Building #1, Industrial Arts Building 001CBJ

1. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

| **MATERIALS** | **LOCATION** | **SAMPLE NO.** |
|---|---|---|
| a. Pipe Insulation<br>(ACM) | Rooms 160-164<br>Will be disturbed by building demolition | 936252 – 54<br>10/8/91<br>29 – 31<br>6/6/01 |
| b. Ceiling Drywall with Joint Compound<br>(ACM) | Rooms 160, 162, and 164 above ceiling tile<br>Will be disturbed by building demolition | 41 – 43<br>6/6/01 |
| c. Cement Board<br>(ACM) | Counter top in drafting room 160<br>Will be disturbed by building demolition | Assumed |
| d. Smooth Sheet<br>(ACM) | Roof<br>Will be disturbed by building demolition | 957770 – 72<br>8/25/94 |
| e. Black and Grey Pitch Pocket Mastic<br>(ACCM) | Roof pipes<br>Will be disturbed by building demolition | 1603-0024 – 26<br>2/8/16 0.48% by Pt. Ct. |
| f. Black Penetration Mastic<br>(ACCM) | Roof<br>Will be disturbed by building demolition | 1603-0027 – 29<br>2/8/16 0.34% by Pt. Ct. |
| g. White/Brown Patch Cloth<br>(ACM) | Roof around parapet<br>Will be disturbed by building demolition | 1603-0030 – 32<br>2/8/16 |
| h. Kicksheet<br>(ACM) | Roof around HVAC and vent bases<br>Will be disturbed by building demolition | 1603-0033 – 35<br>2/8/16 |
| i. Parapet Wall<br>(ACM) | Roof north west section<br>Will be disturbed by building demolition | 1603-0036 – 38<br>2/8/16 |
| j. 12”x12” Tan Floor Tile with Mastic<br>(ACM) (concrete substrate) | Faculty lounge restroom<br>Will be disturbed by building demolition | 1605-0632 – 34<br>5/5/16 |
| k. Mastic Under Carpet and Adhesive<br>(ACM) (concrete substrate under wood base) | Faculty lounge<br>Will be disturbed by building demolition | 1605-0635 – 37<br>5/5/16 |
| l. Fire Doors<br>(ACM) | Entrance to boiler room<br>Will be disturbed by building demolition | Assumed |

2. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

| MATERIALS | LOCATION | SAMPLE NO. |
|---|---|---|
| a. Sand Plaster Ceilings | Room 160<br>Will be disturbed by building demolition | 0201-2003 – 07<br>11/24/02 |
| b. 12”x12” Random Ceiling Tiles with Mastic | Rooms 160 and 164<br>Will be disturbed by building demolition | 23 – 25<br>6/6/01<br>26 – 28<br>6/6/01 (Brown Mastic) |
| c. 12”x12” Straight Ceiling Tiles with Mastic | Faculty lounge room 162 and drafting shop room 160<br>Will be disturbed by building demolition | 35 – 37<br>6/6/01<br>38 – 40<br>6/6/01 (Brown Mastic) |
| d. Capsheet | Roof<br>Will be disturbed by building demolition | 957773 – 75<br>8/25/94 |
| e. Gravel Roofing | Roof<br>Will be disturbed by building demolition | 957776 – 78<br>8/25/94 |
| f. Stucco Walls | Exterior of building<br>Will be disturbed by building demolition | 963333<br>12/14/94<br>0502-0866 – 68<br>2/5/05 <0.1% by Pt. Ct.<br>0805-0914 – 16<br>5/2/08 |
| g. Window Putty | Rooms 160, 161, 163<br>Will be disturbed by building demolition | 20 – 22<br>6/6/01<0.1% by Pt. Ct. |
| h. Smooth Plaster Walls | Room 161<br>Will be disturbed by building demolition | 32 – 34<br>6/6/01 |
| i. Moisture Barrier Paper | Behind exterior stucco<br>Will be disturbed by building demolition | 0805-0917 – 22<br>5/2/08 <0.1% by Pt. Ct. |
| j. Boiler Firewalls and Brick | Room 163<br>Will be disturbed by building demolition | 0805-3617 – 22<br>5/29/08 |

| | | |
|---|---|---|
| k. Dash Coat | Northeast corner, north center, southwest corner, southern portion, southeast corner, east corner exterior<br>Will be disturbed by building demolition | 9707-0820 – 22<br>7/21/97<br>0502-0859 – 65<br>2/5/05 <0.1% by Pt. Ct. |
| l. Black Mastic | Wood floor blocks room 163<br>Will be disturbed by building demolition | 0812-0192<br>12/4/08<br>0810-0893 – 97<br>10/28/08 <0.1% by Pt. Ct. |
| m. 12”x12” Grey Floor Tile (wood underneath on top of concrete substrate) | Room 160 office<br>Will be disturbed by building demolition | New as of March 2008 |
| n. 12”x12” Black and Yellow Mixed Floor Tile (wood underneath on top of concrete substrate) | Room 163 in three storage rooms<br>Will be disturbed by building demolition | New as of August 2011 |
| o. Sand Plaster Walls | Throughout all rooms except noted above<br>Will be disturbed by building demolition | 963335 & 963338<br>12/13/94<br>110442 – 44<br>12/3/97 |
| p. HVAC Sealant | On ducting in classrooms 161, 163, and 164<br>Will be disturbed by building demolition | 1603-0000 – 02<br>2/8/16 |
| q. Built up Flooring with Mastic and Paper Under Wood Flooring (Concrete Substrate) | Instrumental storage room, storage room, and office<br>Will be disturbed by building demolition | |
| r. Vibration Reducer | Roof old HVAC unit<br>Will be disturbed by building demolition | 1603-0093<br>2/8/16 |

*A-Sheets have Gaskets and Sealing Rope in boiler room – new equipment has been installed

3. Recommendations for handling ACM and/or ACCM:
   a. Pipe Insulation, Ceiling Drywall and Joint Compound, Fire Door, and Cement Board
      1) Any materials that are suspect or have been determined to contain asbestos at the site, that may be affected by demolition activities, should be isolated and abated by a licensed abatement contractor in accordance with LAUSD Specification Section 02 8213 Asbestos Abatement and Asbestos Related Disturbance

   b. Mastic under Carpet and Adhesive, 12”x12” Tan Floor Tile with Mastic

1) Floor tile and mastic should be removed by qualified personnel in accordance with the LAUSD Standard Specifications Section 02 8216 for the Removal of Non-Friable Asbestos Containing Floor Tile.

c. Smooth Sheet, Kick Sheet, Parapet Wall, Black Penetration Mastic, Black and Grey Pitch Pocket Mastic, and White/brown Patch Cloth

1) Roofing materials should be removed by qualified personnel in accordance with the LAUSD Specifications Section 02 8219 for Asbestos Abatement of Non-Friable Roofing Material.

4. General Notes:

1) Attics are cleared for entry by FETU on 6/16/05.

2) No crawlspace is present.

3) No Ceiling space is present.

B. Building #2, Auditorium Building 002BAJ

1. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

| MATERIALS | LOCATION | SAMPLE NO. |
|---|---|---|
| a. Acoustical Plaster Ceiling (ACM) | Foyer<br>Will be disturbed by renovations to building | 940906 – 10<br>4/14/92<br>963565 – 69<br>12/14/94 |
| b. Pipe Insulation (ACM) | Hopper room in foyer<br>Will be disturbed by renovations to building | 936255 – 57<br>10/8/91 |
| c. Dash Coat (ACCM) | Exterior walls<br>Will be disturbed by renovations to building | 0501-0009 – 15<br>12/29/04 0.15% by Pt. Ct. |

2. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

| MATERIALS | LOCATION | SAMPLE NO. |
|---|---|---|

| | | |
|---|---|---|
| a. Smooth Plaster Ceilings | Lobby, seating area, boy's and girl's restrooms in foyer, and basement restroom<br>Will be disturbed by renovations to building | 963369 – 70<br>12/14/94<br>205 – 207<br>6/6/01<br>0602-1284 – 88<br>1/20/06 |
| b. Smooth Plaster Walls | Boy's restroom in foyer, north hallway, and basement restrooms<br>Will be disturbed by renovations to building | 963386 – 88<br>12/14/94<br>0201-0383 – 86<br>1/3/02 |
| c. Stucco Walls | Exterior walls<br>Will be disturbed by renovations to building | 963332<br>12/13/94<br>0805-0902 – 04<br>5/2/08 <0.1% by Pt. Ct. |
| d. Acoustical Walls | Under wall tile of the auditorium<br>Will be disturbed by renovations to building | 963560 – 64<br>12/14/94 |
| e. Sand Plaster Ceiling | Foyer (ticket booth), hopper room, girl's dressing room, and basement hopper room<br>Will be disturbed by renovations to building | 963375, 963378 – 80<br>12/14/94<br>0305-1709 – 11<br>4/16/03 |
| f. Sand Plaster Walls | Basement hopper room, dressing room, foyer (ticket booth and hopper room) and stage croft<br>Will be disturbed by renovations to building | 963389 – 93<br>12/14/94 |
| g. Window Putty | Stage area and basement<br>Will be disturbed by renovations to building | 56 – 58<br>6/6/01 |
| h. 12"x12" Tan Floor Tile with Mastic (concrete substrate) | Band room, boy's and girl's dressing rooms<br>Will be disturbed by renovations to building | New 5/04 |
| i. 12"x12" Beige Floor Tile with Mastic (concrete substrate) | Storage room<br>Will be disturbed by renovations to building | New 5/04 |
| j. Black Floor Sheeting (concrete substrate) | Auditorium aisles along wall<br>Will be disturbed by renovations to building | New 3/06 |
| k. Rolled Roof | Roof<br>Will be disturbed by renovations to building | 0305-1647 – 49<br>4/14/03 |

| | | |
|---|---|---|
| l. Kick Sheet | Roof<br>Will be disturbed by renovations to building | 0305-1650 – 52<br>4/14/03 |
| m. Penetration Mastic | Roof<br>Will be disturbed by renovations to building | 0305-1653 – 55<br>4/14/03 |
| n. Acoustical Plaster Ceiling | Topside through foyer attic<br>Will be disturbed by renovations to building | 0305-1704 – 08<br>4/16/03 |
| o. 12”x12” Straight Wall Tiles with Adhesive | Auditorium<br>Will be disturbed by renovations to building | 963400 – 02<br>12/14/94 (backing)<br>963394 – 96<br>12/14/94<br>0201-0380 – 82<br>1/3/02 (mastic)<br>0201-1985 – 87<br>1/24/02 (glue) |
| p. Capsheet | Roof<br>Will be disturbed by renovations to building | 0603-3456 – 58<br>3/25/06 |
| q. 12”x24” Straight Wall and Ceiling Tiles with Adhesive | Auditorium<br>Will be disturbed by renovations to building | 963397 – 99<br>12/14/94<br>0201-2000 – 2002<br>1/24/02 (glue) |
| r. Penetration Mastic | Roof<br>Will be disturbed by renovations to building | 0603-3459 – 61<br>3/25/06 |
| s. 12”x12” Black/Grey Mixed Floor Tile (concrete substrate) | Orchestra Pit<br>Will be disturbed by renovations to building | New 2001 |
| t. Vinyl Vibration Reducers | Two attic fan rooms<br>Will be disturbed by renovations to building | New 2008 |
| u. Moisture Barrier Paper | Exterior beneath stucco<br>Will be disturbed by renovations to building | 0805-0905 – 07<br>5/2/08 |
| v. 12”x12” Straight Ceiling Tiles with Adhesive | Band room and auditorium<br>Will be disturbed by renovations to building | 1603-0106 – 08<br>2/8/16 |

3. Recommendations for handling ACM and/or ACCM:
   a. Acoustical Plaster Ceiling, TSI Pipe Insulation, and Exterior Dashcoat
      1) Any materials that are suspect or have been determined to contain asbestos at the site, that may be affected by demolition

activities, should be isolated and abated by a licensed abatement contractor in accordance with LAUSD Specification Section 02 8213 Asbestos Abatement and Asbestos Related Disturbance

4. General Notes:

    1) Attics are cleared for entry by FETU on 6/20/05.

    2) Crawlspaces are cleared for entry by FETU on 6/1/06.

    3) No ceiling space is present.

C. Building #3, Home Economics Building 003BCJ

1. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

| **MATERIALS** | **LOCATION** | **SAMPLE NO.** |
|---|---|---|
| a. Sand Plaster Ceiling (ACM) | Above ceiling tiles in faculty dining room (only place testing said to be hot) Will be disturbed during renovations to building | 9908-0350 – 52 8/11/99 |
| b. Pipe Insulation (ACM) | Kitchen attic space, office, north hall, storage room, above student room dining on riser, above walk in fridge and hopper room Will be disturbed by renovations to building | 936255 – 57 10/8/91 |
| c. Pipe Insulation Debris (ACM) | Crawlspace observed on pipes in northwest area and on soil, north area, and northeast area. Will be disturbed by renovations to building | 1603-0077 2/8/16 |
| d. Smooth Sheet (ACM) | Roof Will be disturbed by renovations to building | 957755 – 57 8/25/94 |
| e. Capsheet (ACM) | Roof Will be disturbed by renovations to building | 957761 – 63 8/25/94 |

| | | |
|---|---|---|
| f. 12"x12" Brown with White Floor Tiles and Mastic (concrete substrate)<br>(ACM) | 2nd floor hallway<br>Will be disturbed by renovations to building | 110481 – 83<br>12/3/97 – 12/4/97 (Mastic) |
| g. Stucco Walls<br>(ACM) | Exterior<br>Will be disturbed by renovations to building | 963331<br>12/13/94<br>110490 – 92<br>12/4/97<br>0305-1720 – 26<br>4/16/03 |
| h. Cement Board<br>(ACM) | Transoms of parent center, 2nd floor hallway, faculty lounge, and rooms 200-203<br>Will be disturbed by renovations to building | Assumed |
| i. Pipe Insulation and Debris<br>(ACM) | Ceiling space above hopper room in kitchen, ceiling space above hallway in kitchen area, and above kitchen freezer<br>Will be disturbed by renovations to building | 291 – 292<br>10/8/91 |
| j. Window Putty<br>(ACM) | Exterior windows<br>Will be disturbed by renovations to building | 0501-0023 – 25<br>12/29/04<br>1603-0087 – 89<br>2/8/16 |
| k. 9"x9" Brown Floor Tile with Mastic<br>(ACM) (concrete substrate) | 1st floor storage area next to stairway to student dining<br>Will be disturbed by renovations to building | 1603-0081 – 83<br>2/8/16 |
| l. Dex-o-Tex<br>(ACM) | 1st floor lower deck<br>Will be disturbed by renovations to building | 1301-0060 – 63<br>1/22/13 1.05% by Pt. Ct. |
| m. Vibration Reducer<br>(ACM) | Ceiling space of fan room<br>Will be disturbed by renovations to building | Assumed |
| n. Pitch Pocket Mastic<br>(ACCM) | Roof around pipes<br>Will be disturbed by renovations to building | 1603-0090 – 92<br>2/8/16 0.72% by Pt. Ct. |

2. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

| MATERIALS | LOCATION | SAMPLE NO. |
|---|---|---|
| a. Sand Plaster Walls | Hallway<br>Will be disturbed by renovations to building | 963336, 963339<br>12/13/94<br>94 – 96<br>6/6/01 |
| b. 12”x12” Straight Ceiling Tiles Wide Hole with Adhesive | 1st and 2nd floor hallways<br>Will be disturbed by renovations to building | 963348 – 50<br>12/13/94<br>110484 – 86<br>12/4/97 (Glue) |
| c. Gravel Roofing | Roof<br>Will be disturbed by renovations to building | 957758 – 60<br>8/25/94 |
| d. Smooth Plaster Ceiling | Kitchen serving and storage, kitchen office, student dining, and restrooms<br>Will be disturbed by renovations to building | 9812-0383 – 85<br>12/21/98 |
| e. 12”x12” Straight Small Hole Ceiling Tile with Adhesive | Faculty dining, cafeteria, dishwashing area, parent center, student dining and rooms 200-203<br>Will be disturbed by renovations to building | 963359<br>12/13/94<br>9812-0386 – 88<br>12/21/98 (Glue)<br>0305-1717 – 19<br>4/16/03 |
| f. Beige Plaster Walls | Cafeteria and kitchen<br>Will be disturbed by renovations to building | 110487 – 89, 110493 – 95<br>12/4/97 |
| g. 12”x12” Dark Brick Floor Tile with Mastic (concrete substrate) | Storage room<br>Will be disturbed by renovations to building | 9608-0465 – 67<br>8/15/96 |
| h. 12”x12” Rust Floor Tile (concrete substrate) | Kitchen locker room<br>Will be disturbed by renovations to building | 9612-0727 – 29<br>12/9/96 |
| i. Smooth Plaster Walls | Student dining and faculty dining<br>Will be disturbed by renovations to building | 963343, 963345<br>12/13/94<br>0201-0378 – 79<br>1/3/02 |
| j. Sand Plaster Ceiling | 1st and 2nd floor hallways, rooms 200-203<br>Will be disturbed by renovations to building | 963355, 963357<br>12/13/94<br>0305-1712 – 16<br>4/16/03 |

| | | |
|---|---|---|
| k. Dash Coat | Exterior Walls<br>Will be disturbed by renovations to building | 0501-0016 – 22<br>12/29/04 <0.1% by Pt. Ct. |
| l. Tan and Blue Floor Sheeting with Mastic (concrete substrate) | Student dining room<br>Will be disturbed by renovations to building | New 10/05 |
| m. 12”x12” Cottage Blue Floor Tile with Mastic (concrete substrate) | Parent center and rooms 201-203<br>Will be disturbed by renovations to building | New 10/05 |
| n. Blue Floor Sheeting with Mastic (concrete substrate) | Room 200<br>Will be disturbed by renovations to building | New 10/05 |
| o. Blue Floor Sheeting (concrete substrate) | 1st floor hallway by faculty dining room<br>Will be disturbed by renovations to building | New 03/06 |
| p. Black Floor Sheeting (concrete substrate) | 1st floor entrance at southwest foyer<br>Will be disturbed by renovations to building | New 03/06 |
| q. Dex-o-Tex | 2nd floor upper deck<br>Will be disturbed by renovations to building | 1301-0064 – 76<br>1/22/13 |
| r. Drywall | Soffit: Student dining, rooms 200-203<br>Will be disturbed by renovations to building | New 03/08 |
| s. 2’x2’ Smooth Ceiling Tile | Student dining, rooms 200-203<br>Will be disturbed by renovations to building | New 03/08 |
| t. 2’x2’ Fissured Ceiling Tile | Rooms 200-201 and storage room of 201. 202-203 and storage room of 203.<br>Will be disturbed by renovations to building | New 03/08 |
| u. Green/yellow Mosaic Floor Sheeting with Mastic (concrete substrate) | Faculty dining<br>Will be disturbed by renovations to building | 1603-0074 – 76<br>2/8/16 |
| v. 4” Beige Covebase with Adhesive | Faculty dining room<br>Will be disturbed by renovations to building | 1603-0078 – 80<br>2/8/16 |
| w. Black Penetration Mastic | Roof<br>Will be disturbed by renovations to building | 1603-0084 – 86<br>2/8/16 |

3. Recommendations for handling ACM and/or ACCM:
   a. Cement Board, Pipe Insulation and Debris, Pipe Insulation, Dex-o-Tex, Window Putty, Vibration Reducers, Exterior Stucco, and Sand Plaster Ceilings
      1) Any materials that are suspect or have been determined to contain asbestos at the site, that may be affected by demolition

activities, should be isolated and abated by a licensed abatement contractor in accordance with LAUSD Specification Section 02 8213 Asbestos Abatement and Asbestos Related Disturbance

b. 9”x9” Brown Floor Tile with Mastic and 12”x12” Brown and White Floor Tiles with Mastic

1) Floor tile and mastic should be removed by qualified personnel in accordance with the LAUSD Standard Specifications Section 02 8216 for the Removal of Non-Friable Asbestos Containing Floor Tile.

c. Capsheet, Pitch Pocket Mastic and Smooth Sheet

1) Roofing materials should be removed by qualified personnel in accordance with the LAUSD Specifications Section 02 8219 for Asbestos Abatement of Non-Friable Roofing Material.

4. General Notes:

1) Attics are cleared for entry by FETU.

2) Crawlspace is contaminated (loose TSI hanging on pipes – see Phase II for locations)

3) Ceiling space is contaminated – between first and second floor above kitchen area.

D. Building #4, Admin & Classroom Building 004BDJ

1. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

| **MATERIALS** | **LOCATION** | **SAMPLE NO.** |
|---|---|---|
| a. Sand Plaster Ceiling<br>(ACM) | Throughout<br>Will be disturbed by building renovations | 963353, 56<br>12/14/94<br>110<br>6/6/01<br>0305-1747 – 49<br>4/16/03<br>0305-2884 – 86<br>5/27/03 |

| | | |
|---|---|---|
| b. Pipe Insulation<br>(ACM) | Room 109 health office pipe chase (was not observed in other locations listed on the A-Sheets)<br>Will be disturbed by building renovations | 936258 – 63<br>10/8/91 |
| c. 9”x9” Red Floor Tile with Mastic (concrete substrate)<br>(ACM) | Room 211 and 213<br>Will be disturbed by building renovations | 1603-0151 – 53<br>2/8/16 |
| d. Vibration Reducers<br>(ACM) | Attic fan room above girl’s and boy’s restroom<br>Will be disturbed by building renovations | Assumed |
| e. Cement Board<br>(ACM) | Kiln in room 2, 1st and 2nd floor rooms, basement rooms 1 and 2<br>Will be disturbed by building renovations | Assumed |
| f. Dash Coat<br>(ACM) | Exterior over concrete<br>Will be disturbed by building renovations | 0805-0926 – 28<br>5/2/08 (NO PT. CT.)<br>1603-0212 – 14<br>3/4/16 |
| g. Cement Pipe and Vent<br>(ACM) | Ceiling space in boiler room, inside chimney in boiler room<br>Will be disturbed by building renovations | Assumed |
| h. Table Tops<br>(ACM) | Room 2<br>Will be disturbed by building renovations | Assumed |
| i. 9”x9” Yellow Floor Tile with Mastic (concrete substrate)<br>(ACM) | Room 2 with storage<br>Will be disturbed by building renovations | 0305-1750 – 52<br>4/16/03 |
| j. Stucco Wall<br>(ACM) | Exterior<br>Will be disturbed by building renovations | 962914<br>12/12/94<br>0201-1979 – 84<br>1/24/02 |
| k. 9”x9” Brown Floor Tile with Mastic (concrete substrate)<br>(ACM) | Room 1 storage through dark room<br>Will be disturbed by building renovations | 996556 – 58<br>1/26/96<br>0305-1753 – 55<br>4/16/03 |

2. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

| MATERIALS | LOCATION | SAMPLE NO. |
|---|---|---|
| a. Sand Plaster Walls | Throughout<br>Will be disturbed by building renovations | 963334, 37, 40<br>12/13/94<br>100 – 102<br>6/6/01<br>0201-1978<br>1/24/02 |
| b. 12”x12” Straight Ceiling Tile with Mastic | 1st floor hallway, throughout building<br>Will be disturbed by building renovations | 963358<br>12/14/94<br>110634 – 36<br>12/13/97 (Mastic)<br>103 – 104 (CT)<br>107 – 108 (Mastic)<br>6/6/01 |
| c. Black Mastic | On wood floor blocks in room 161<br>Will be disturbed by building renovations | 0506-0363<br>6/9/05 |
| d. 12”x12” Blue Floor Tile with Mastic (concrete substrate) | Health office, career center, book room, men’s faculty lounge, finance office, magnet office, attendance office, supply room, rooms 204 - 210, 212, 215 and anthenian village<br>Will be disturbed by building renovations | New 9/05 |
| e. Black Non-skid Floor Covering with Mastic (concrete substrate) | 1st floor south side entry foyer<br>Will be disturbed by building renovations | New 9/05 |
| f. Tan Floor Sheeting with Adhesive (concrete substrate) | Principal office, main office, assistant principal office (2), main office supply room, dean of student’s office, two offices inside attendance office, room 1 and 2<br>Will be disturbed by building renovations | New 9/05 |
| g. Rolled Roofing | Roof<br>Will be disturbed by building renovations | 0305-1638 – 40<br>4/14/03 |
| h. Penetration Mastic | Roof<br>Will be disturbed by building renovations | 0305-1641 – 43<br>4/14/03 |
| i. Kicksheet | Roof<br>Will be disturbed by building renovations | 0305-1644 – 46<br>4/14/03 |

| | | |
|---|---|---|
| j. Vibration Reducers | Main office storage room, counselors office storage room, men's restroom, finance office<br>Will be disturbed by building renovations | New 2007 |
| k. Drywall Soffits | Attendance office, book room, assistant principal, dean's office, room 100, career center, finance office, magnet office, rooms 204-213, 215, library storage room<br>Will be disturbed by building renovations | New 2007 |
| l. 2'x2' Fissured Ceiling Tiles | Attendance office, book room, assistant principal, dean's office, room 100, career center, finance office, magnet office, rooms 204-213, 215, library storage room<br>Will be disturbed by building renovations | New 2007 |
| m. Tack Board and Adhesive | North wall in counseling complex<br>Will be disturbed by building renovations | 1401-0215 – 17<br>1/20/14 |
| n. 12"x12" Yellow, Grey, Light Grey Floor Tiles with Adhesive (Mixed) (concrete substrate) | Room 115 and 117<br>Will be disturbed by building renovations | New 2014 |
| o. 4" Grey Covebase | Room 115 and 117<br>Will be disturbed by building renovations | New 2014 |
| p. 2'x4' Fissure Ceiling Tile | Room 115 and 117<br>Will be disturbed by building renovations | New 2014 |
| q. Tan and Blue Pattern Floor Sheeting with Mastic (concrete substrate) | 1st floor hallway and 2nd floor hallway<br>Will be disturbed by building renovations | New 9/2005 |
| r. 12"x12" Beige Floor Tile with Adhesive (concrete substrate) | Room 215<br>Will be disturbed by building renovations | 0007-0591 – 93<br>7/26/00 |
| s. Green Carpet Glue (concrete substrate) | Library with office<br>Will be disturbed by building renovations | 110646 – 48<br>12/8/97 |
| t. Brown Battleship Flooring with Adhesive (concrete substrate) | Room 210, finance office, assistant principal office, north half of classroom 1, health office, room 112<br>Will be disturbed by building renovations | 9707-1192 – 94<br>7/24/97<br>0305-1736 – 40<br>4/16/03 |
| u. Ceiling Plaster | 2nd floor breezy way<br>Will be disturbed by building renovations | 0501-0975 – 77<br>1/22/04 |

| | | |
|---|---|---|
| v. Smooth Plaster Walls | Men's lounge and dean's office, and restrooms<br>Will be disturbed by building renovations | 963342, 47<br>12/13/94<br>109<br>6/6/01 |
| w. Window Putty | Library, middle landing<br>Will be disturbed by building renovations | 97 – 99, 105 – 106<br>6/6/01 <0.1% by Pt. Ct. |
| x. Brown Floor Sheeting with Mastic (concrete substrate) | Safe room in main office<br>Will be disturbed by building renovations | 1603-0142 – 44<br>2/8/16 |
| y. Black Floor Sheeting with Mastic (concrete substrate) | Steps of first floor hallway<br>Will be disturbed by building renovations | 1603-0145 – 47<br>2/8/16 |
| z. 12"x12" Brown Floor Tile with Mastic (concrete substrate) | Center stairway landing between 1st and 2nd floor<br>Will be disturbed by building renovations | 1603-0148 – 50<br>2/8/16 |
| aa. 12"x12" Cottage Tan, 12"x12" white, 12"x12" Blue Floor Tile with Mastic (Mixed) (concrete substrate) | Room 116 (formerly room 100)<br>Will be disturbed by building renovations | 1603-0154 – 62<br>2/8/16 |
| bb. 4" Black Covebase with Adhesive | Room 116 (formerly room 100)<br>Will be disturbed by building renovations | 1603-0163 – 65<br>2/8/16 |
| cc. 4" Tan Covebase with Adhesive | Room 1 and 2 basement<br>Will be disturbed by building renovations | 1603-0166 – 68<br>2/8/16 |

3. Recommendations for handling ACM and/or ACCM:
   a. Sand Plaster Ceilings, Pipe Insulation, Vibration Reducers, Cement Boards, Cement Table Tops, Exterior Dashcoat, Cement Pipe and Vent, and Exterior Stucco
      1) Any materials that are suspect or have been determined to contain asbestos at the site, that may be affected by demolition activities, should be isolated and abated by a licensed abatement contractor in accordance with LAUSD Specification Section 02 8213 Asbestos Abatement and Asbestos Related

   b. 9"x9" Red Floor Tiles with Mastic, 9"x9" Yellow Floor Tile with Mastic, and 9"x9" Brown Floor Tiles with Mastic
      1) Floor tile and mastic should be removed by qualified personnel in accordance with the LAUSD Standard Specifications Section 02 8216 for the Removal of Non-Friable Asbestos Containing Floor Tile.

4. General Notes:

    1) Attics are cleared for entry by FETU on 7/29/07.

    2) Crawlspaces cleared for entry by FETU on 11/8/07.

    3) Ceiling space is cleared for entry

E. Building #5, Classroom Building #1 005BCJ

1. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

| **MATERIALS** | **LOCATION** | **SAMPLE NO.** |
|---|---|---|
| a. Cement Pipe and Vent (ACM) | 1st and 2nd floor pipe chase Will be disturbed by building renovations | Assumed |
| b. Cement Boards (ACM) | Transoms of all classrooms Will be disturbed by building renovations | Assumed |
| c. 12”x12” Tan Floor Tile with Mastic (ACM) (concrete substrate) | Rooms 120-126 and 227, 228a and b, 229 Will be disturbed by building renovations | 110607 – 09 12/8/97 |
| d. 9”x9” Brown Floor Tile with Mastic (ACM) (concrete substrate) | Room 226 Will be disturbed by building renovations | 110616 – 21 12/8/97 |
| e. 9”x9” Dark Brown Floor Tile with Mastic (ACM) (concrete substrate) | Storage room in room 127 Will be disturbed by building renovations | Floor Tile: 1603-0109 – 11 Mastic: ND 2/8/16 |
| f. 12”x12” Beige Floor Tile with Mastic (ACM) (concrete substrate) | Room 127 Will be disturbed by building renovations | 0803-0606 – 08 3/10/08 |
| g. Vibration Reducer (ACM) | Attic fan rooms Will be disturbed by building renovations | Assumed |
| h. Floor Leveling Compound (ACM) (concrete substrate) | Room 228B, 229, 230 Will be disturbed by building renovations | 0803-0593 – 95, 0803-0602 3/10/08 |
| i. 12”x12” Brown and Light Brown Mixed Floor Tile with Mastic (ACM) (concrete substrate) | Room 230 Will be disturbed by building renovations | 0803-0596 – 0601 3/10/08 (Mastic) |

| | | |
|---|---|---|
| j. 12"x12" Brown and White Mixed Floor Tile with Mastic (ACM) (concrete substrate) | 1st floor hallway<br>Will be disturbed by building renovations | 0803-0603 – 05<br>3/10/08 |

2. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

| **MATERIALS** | **LOCATION** | **SAMPLE NO.** |
|---|---|---|
| a. Sand Plaster Ceilings | Throughout<br>Will be disturbed by building renovations | 963351, 52, 54,<br>963403 – 06<br>12/4/94<br>0201-0374 – 77<br>1/3/02 |
| b. Sand Plaster Walls | Throughout<br>Will be disturbed by building renovations | 963323 – 29<br>10/10/91 |
| c. 12"x12" Random Ceiling Tile with Mastic | Room 126<br>Will be disturbed by building renovations | 110622 – 24<br>12/3/97<br>110625 – 27<br>12/3/97 (Mastic) |
| d. 12"x12" Random Ceiling Tile with Mastic | Room 230 and hallway<br>Will be disturbed by building renovations | 110628 – 30<br>12/8/97<br>110631 – 33<br>12/8/97 (Mastic) |
| e. 12"x12" Straight Ceiling Tile with Mastic | Hallway<br>Will be disturbed by building renovations | 110610 – 12<br>12/3/97<br>110613 – 15<br>12/3/97 (Mastic) |
| f. Brown Battleship Flooring (concrete substrate) | 2nd floor storage next to hopper room, storage next to room 230<br>Will be disturbed by building renovations | 956943 – 45<br>7/14/94 |
| g. Stucco Walls | Exterior<br>Will be disturbed by building renovations | 962915<br>12/12/94<br>62 – 63<br>6/6/01 <0.1% by Pt. Ct. |

| | | |
|---|---|---|
| h. Dash Coat on Walls | Exterior<br>Will be disturbed by building renovations | 0501-0026 – 32<br>12/29/04 <0.1% by Pt. Ct. |
| i. 12”x12” Blue Floor Tile with Mastic (concrete substrate) | Rooms 220-224, 231, and storage room next to room 230<br>Will be disturbed by building renovations | New 03/06 |
| j. Black Floor Sheeting (concrete substrate) | South stairway landing<br>Will be disturbed by building renovations | New 03/06 |
| k. Kicksheet | Roof<br>Will be disturbed by building renovations | 0305-1656 – 58<br>4/14/03 |
| l. Penetration Mastic | Roof<br>Will be disturbed by building renovations | 0305-1662 – 64<br>4/14/03 |
| m. Rolled Roofing | Roof<br>Will be disturbed by building renovations | 0305-1659 – 61<br>4/14/03 |
| n. Drywall Soffit | Rooms 120-126, 220-229, 230 with storage and 231<br>Will be disturbed by building renovations | New 2007 |
| o. 2’x2’ Fissure Ceiling Tile | Rooms 120-126, 220-229, 230 with storage and 231<br>Will be disturbed by building renovations | New 2007 |
| p. Tan and Blue Mixed Floor Sheeting (concrete substrate) | 2nd floor hallway<br>Will be disturbed by building renovations | 0803-0609 – 11<br>3/10/08 |
| q. 12”x12” Cottage Tan Floor Tile (concrete substrate) | Room 228b<br>Will be disturbed by building renovations | New 03/08 |
| r. Debris | Crawlspace<br>Will be disturbed by building renovations | 0803-0347 – 49<br>3/6/08 |
| s. Scratch Coat | Underside of stairs to 2nd floor<br>Will be disturbed by building renovations | 934363 – 68<br>6/17/91 |
| t. Window Putty | Exterior Windows<br>Will be disturbed by building renovations | 59 – 61<br>6/6/01 |

3. Recommendations for handling ACM and/or ACCM:
   a. Cement Pipe and Vent, Cement Boards, Vibration Reducers, Floor Leveling Compound,
      1) Any materials that are suspect or have been determined to contain asbestos at the site, that may be affected by demolition activities, should be isolated and abated by a licensed abatement contractor in accordance with LAUSD Specification Section

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b. 12”x12” Tan Floor Tile with Mastic, 9”x9” Brown Floor Tile with Mastic, 9”x9” Dark Brown Floor Tiles, 12”x12” Beige Floor Tile with Mastic, 12”x12” Light Brown and Brown Mixed Floor Tile with Mastic, 12”x12” Brown and White Mixed Floor Tile with Mastic

1) Floor tile and mastic should be removed by qualified personnel in accordance with the LAUSD Standard Specifications Section 02 8216 for the Removal of Non-Friable Asbestos Containing Floor Tile.

4. General Notes:

1) Attics are cleared for entry by FETU on 7/29/07.

2) Crawlspaces are cleared for entry by FETU.

3) Ceiling space is cleared for entry

F. Building #6, P.E. Building 006CBJ

1. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

| **MATERIALS** | **LOCATION** | **SAMPLE NO.** |
|---|---|---|
| a. Acoustical Plaster Ceiling (ACM) | Girl’s corrective room, boy’s and girl’s offices Will be disturbed by building renovations | 963371 – 73 12/14/94 |
| b. Pipe Insulation (ACM) | Boy’s weight room, gym, equipment storage, boy’s locker room Will be disturbed by building renovations | 293 7/17/82 908006 – 11 7/11/88 |
| c. Black Felt Floor Adhesive (ACM) | Main gym floor under wood flooring Will be disturbed by building renovations | 9807 – 0925 7/15/98 |
| d. Penetration Mastic (ACCM) | Roof Will be disturbed by building renovations | 0603-3417 – 19 3/24/06 0.46% by Pt. Ct. |
| e. 9”x9” Brown Floor Tile with Mastic** (ACM) (concrete substrate) | Storage room by weight room Will be disturbed by building renovations | Major Abatement Forms Attached in Appendix A |

| | | |
|---|---|---|
| f. Window Putty (ACM) | Exterior windows Will be disturbed by building renovations | 1603-0124 – 26 2/8/16 |

2. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

| **MATERIALS** | **LOCATION** | **SAMPLE NO.** |
|---|---|---|
| a. Smooth Plaster Ceiling | Boy's and girl's restroom and office in locker room Will be disturbed by building renovations | 963364, 65, 67 12/14/94 |
| b. Smooth Plaster Walls | Boy's restroom, coaches restroom, and Girl's locker room, Will be disturbed by building renovations | 963341, 44, 46 12/14/94 |
| c. 12"x12" Straight Ceiling Tiles with Adhesive | Weight room, boy's coaches office Will be disturbed by building renovations | 963360 12/14/94 111 – 115 6/6/01 (Glue & Tiles) |
| d. 12"x24" Ceiling Tile (Nailed On) | Basketball court, boy's locker room Will be disturbed by building renovations | 950400 – 06 7/6/93 |
| e. Sand Plaster Ceilings | Hopper room, boy's locker room Will be disturbed by building renovations | 963374, 76, 77 12/19/94 |
| f. Sand Plaster Walls | Boy's locker room, hopper room, boy's and girl's offices, hallway, girl's corrective room Will be disturbed by building renovations | 963407 – 08, 963555 – 59 12/19/94 |
| g. HVAC Vent Tape | Boy's locker room and basketball court Will be disturbed by building renovations | 0201-1997 – 99 1/24/02 0702-0592 – 94 1/7/07 |
| h. 12"x12" Yellow and Grey Mixed Floor Tile and Mastic (concrete substrate) | Boy's and girl's coaches office, football equipment rooms, girl's workout room Will be disturbed by building renovations | New 03/06 |
| i. 4" Black Covebase | Girl's workout room, boy's coaches office, girl's coaches office, football equipment rooms Will be disturbed by building renovations | New 03/06 |
| j. Rolled Roof | Roof Will be disturbed by building renovations | 0305-1695 – 97 4/15/03 |
| k. Kicksheet | Roof Will be disturbed by building renovations | 0305-1698 – 1700 4/15/03 |

| | | |
|---|---|---|
| l. Capsheet | Roof<br>Will be disturbed by building renovations | 0603-4141 – 16<br>3/24/06 |
| m. Dash Coat | Exterior walls on top of concrete<br>Will be disturbed by building renovations | 0805-0923 – 25<br>5/2/08 <0.1% by Pt. Ct. |
| n. Drywall Walls with Joint Compound | Separating wall of boy's locker room from weight room<br>Will be disturbed by building renovations | New 9/08 |
| o. 4" Tan Covebase | Weight room<br>Will be disturbed by building renovations | New 9/08 |
| p. Rubber Floor Cover (concrete substrate) | Weight room<br>Will be disturbed by building renovations | New 9/08 |
| q. Stucco Walls* | Exterior<br>Will be disturbed by building renovations | 962916<br>12/14/94<br>116 – 117<br>6/6/01 <0.1% by Pt. Ct. |

*Discrepancy between A-Sheets and Sampling Results
** A-Sheets said it has been abated but was found to still be in a room – 65 square feet

3. Recommendations for handling ACM and/or ACCM:
   a. Pipe Insulation, Window Putty, Acoustical Plaster Ceiling and Black Felt Floor Adhesive
      1) Any materials that are suspect or have been determined to contain asbestos at the site, that may be affected by demolition activities, should be isolated and abated by a licensed abatement contractor in accordance with LAUSD Specification Section 02 8213 Asbestos Abatement and Asbestos Related Disturbance

   b. Penetration Mastic
      1) Roofing materials should be removed by qualified personnel in accordance with the LAUSD Specifications section 02 8219 for Asbestos Abatement of Non-Friable Roofing Material.

   c. 9"x9" Brown Floor Tile with Mastic
      1) Floor tile and mastic should be removed by qualified personnel in accordance with the LAUSD Standard Specifications Section 02 8216 for the Removal of Non-Friable Asbestos Containing Floor Tile.

4. General Notes:

    1) Attics are cleared for entry by FETU on 3/18/16.

    2) No crawlspace is present.

    3) No ceiling space is present.

G. Building #7, Girl's Gymnasium 010DAP

1. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

| MATERIALS | LOCATION | SAMPLE NO. |
|---|---|---|
| a. 12"x12" Random Ceiling Tiles with Adhesive (ACM) | Girl's gym<br>Will be disturbed by building renovations | 110655 –57 (CT None Detected)<br>2/8/16<br>110658 – 60 (Adhesive) |
| b. Pipe Insulation<br>(ACM) | Fan room<br>Will be disturbed by building renovations | 294<br>7/17/82 |
| c. 9"x9" Brown Floor Tile with Mastic (ACM) (concrete substrate) | Equipment storage, foyer, storage next to boy's restroom in foyer<br>Will be disturbed by building renovations | 0203-1027 – 29<br>3/6/02 |
| d. Exterior Stucco<br>(ACM) | Portico and west side of building<br>Will be disturbed by building renovations | 1603-0139 – 41<br>2/8/16 1.78% by Pt. Ct. |

2. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

| MATERIALS | LOCATION | SAMPLE NO. |
|---|---|---|
| a. Sand Plaster Ceilings | Storage room, fan room and janitor's closer<br>Will be disturbed by building renovations | 193 – 195<br>6/6/01<br>1603-0136 – 38<br>2/8/16 |

| | | |
|---|---|---|
| b. Sand Plaster Walls | Boy's and girl's restroom, fan room, and basketball storage room<br>Will be disturbed by building renovations | 962909 – 12<br>12/12/94<br>962913<br>12/12/94<br>110652 – 54<br>12/3/97<br>1603-0133 – 35<br>2/8/16 |
| c. 12"x12" Tan Floor Tile (concrete substrate) | Girl's restroom<br>Will be disturbed by building renovations | New as of 2003 |
| d. Stucco Walls | Exterior<br>Will be disturbed by building renovations | 962916<br>12/12/94<br>110649 – 51<br>12/8/97 |
| e. Drywall Ceiling with Tape and Mud | Southwest storage room and boy's and girl's restroom above ceiling tile<br>Will be disturbed by building renovations | 187 – 189<br>6/6/01 |
| f. Window Putty | Exterior windows<br>Will be disturbed by building renovations | 190 – 192<br>6/6/01 <0.1% by Pt. Ct. |
| g. Rolled Roofing | Roof<br>Will be disturbed by building renovations | 1009-0232 – 34<br>9/24/10 |
| h. Penetration Mastic | Roof<br>Will be disturbed by building renovations | 1009-0235 – 37<br>9/24/10 |
| i. 12"x12" Random Wall Tile with Adhesive | Gym<br>Will be disturbed by building renovations | 1603-0127 – 29<br>2/8/16 |
| j. Duct Seam Seal Tape | Fan room<br>Will be disturbed by building renovations | 1603-0130 – 32<br>2/8/16 |
| k. Felt Paper | Between wood basketball court<br>Will be disturbed by building renovations | 1603-0209 – 11<br>3/4/16 |

3. Recommendations for handling ACM and/or ACCM:

   d. Pipe Insulation, 12"x12" Random Ceiling Tiles with Adhesive, and Exterior Stucco

1) Any materials that are suspect or have been determined to contain asbestos at the site, that may be affected by demolition activities, should be isolated and abated by a licensed abatement contractor in accordance with LAUSD Specification Section 02 8213 Asbestos Abatement and Asbestos Related Disturbance

e. 9"x9" Brown Floor Tiles with Mastic

1) Floor tile and mastic should be removed by qualified personnel in accordance with the LAUSD Standard Specifications Section 02 8216 for the Removal of Non-Friable Asbestos Containing Floor Tile.

4. General Notes:

1) Attics are cleared for entry by FETU on 6/12/06.

2) No crawlspace is present.

3) No ceiling space is present.

H. Building #8, Classroom Building #2 013BCP

1. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

| **MATERIALS** | **LOCATION** | **SAMPLE NO.** |
|---|---|---|
| a. Pipe Insulation<br>(ACM) | Ceiling space outside room 141 hallway<br>Will be disturbed by building renovations | 159<br>9/22/83 |
| b. Stucco Walls<br>(ACM) | Exterior<br>Will be disturbed by building renovations | 962906 – 08<br>12/12/94<br>16<br>6/6/01 <0.1% by Pt. Ct.<br>0805-0941 – 43<br>5/2/08<br>1603-0181 – 183<br>3/1/16 (4% ACM) |
| c. 9"x9" Gray Floor Tile with Mastic<br>(ACM) (concrete substrate) | Faculty room, rooms: 241-A, 242-A, 243<br>Will be disturbed by building renovations | 1412-0145 – 47<br>12/3/14 |

| | | |
|---|---|---|
| d. 9"x9" Tan Floor Tile with Mastic (ACM) (concrete substrate) | Storage next to men's faculty restroom, rooms: 241, 242, 245-A, 247<br>Will be disturbed by building renovations | 1412-00148 – 50<br>12/3/14<br>1603-0112 – 14<br>2/8/16 |
| e. 9"x9" Light Brown Floor Tile with Mastic (ACM) (concrete substrate) | Rooms: 245, 249, storage room next to women's faculty restroom, and storage room across from room 247 | 110565 – 67<br>12/3/97 |
| f. Cement Boards (ACM) | Exhaust booth in room 244<br>Will be disturbed by building renovations | Assumed |
| g. Dashcoat (ACM) | Exterior on concrete walls and overhang<br>Will be disturbed by building renovations | 0805-0932 – 37<br>5/2/08 |

2. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

| **MATERIALS** | **LOCATION** | **SAMPLE NO.** |
|---|---|---|
| a. Sand Plaster Ceilings | 1st floor hallway, throughout most and return air plenum (fan room)<br>Will be disturbed by building renovations | 110553 – 55, 110571 – 76<br>12/3/97<br>0010-0480 – 82<br>10/16/00 |
| b. Sand Plaster Walls | 1st and 2nd floor hallway, throughout most rooms and fan room<br>Will be disturbed by building renovations | 110544 – 46; 110574 – 76, 110547 – 55<br>12/3/97<br>1 – 3<br>6/6/01<br>1412-0251 – 53<br>12/3/14 |
| c. 12"x12" Random Ceiling Tiles with Adhesive | Hallways, rooms: 150, 151, 153, 242, 247, and 251<br>Will be disturbed by building renovations | 110577 – 82<br>12/3/97<br>4 – 9<br>6/6/01 |
| d. Drywall Ceilings | 2nd floor hallway, boy's restroom, and rooms: 150, 151, 153<br>Will be disturbed by building renovations | 110560 – 62; 110583 – 85<br>12/3/97 |

| | | |
|---|---|---|
| e. Drywall Wall with Joint Compound | Room 149 storage<br>Will be disturbed by building renovations | 10 – 15<br>6/6/01 <0.1% by Pt. Ct. |
| f. Blue and Beige Floor Sheeting with Adhesive (concrete substrate) | 1st and 2nd floor hallways<br>Will be disturbed by building renovations | New 03/06 |
| g. Beige Floor Sheeting with Adhesive (concrete substrate) | Rooms 141 – 149, 151, 153, 244, 248, 249A, 251, 251A, 251B, 253, boy's and girl's restroom second floor<br>Will be disturbed by building renovations | New 03/06 |
| h. Rolled Roofing | Roof<br>Will be disturbed by building renovations | 0305-1665 – 67<br>4/14/03 |
| i. Penetration Mastic | Roof<br>Will be disturbed by building renovations | 0305-1668 – 70<br>4/14/03 |
| j. Vibration Reducers | Attic fan room<br>Will be disturbed by building renovations | New 03/07 |
| k. 12"x12" Cottage Tan Floor Tile with Adhesive (concrete substrate) | Rooms 246 and 246A<br>Will be disturbed by building renovations | New as of 2000 |
| l. Black Carpet with Adhesive(concrete substrate) | Room 251A<br>Will be disturbed by building renovations | New as of 2006 |
| m. Roofing Debris | 2nd floor ceiling space<br>Will be disturbed by building renovations | 0805-0929 – 31<br>5/2/08<br>0909-0152 – 54<br>9/23/09 <0.1% by Pt. Ct. |
| n. Moisture Barrier Paper | Exterior beneath stucco<br>Will be disturbed by building renovations | 0805-0938 – 40<br>5/2/08 |
| o. Window Putty | Exterior windows<br>Will be disturbed by building renovations | 17 – 19<br>6/6/01 <0.1% by Pt. Ct. |
| p. Sand Plaster Ceilings | 1st and 2nd floor hopper room<br>Will be disturbed by building renovations | 1603-0115 – 17<br>2/8/16 |
| q. Sand Plaster Walls | 2nd floor hopper room<br>Will be disturbed by building renovations | 1603-0118 – 20<br>2/8/16 |
| r. Pitch Pocket Mastic | Roof around pipes<br>Will be disturbed by building renovations | 1603-0121 – 23<br>2/8/16 |

3. Recommendations for handling ACM and/or ACCM:
   a. Pipe Insulation, Cement Boards, Dashcoat, and Stucco
      1) Any materials that are suspect or have been determined to contain asbestos at the site, that may be affected by demolition activities, should be isolated and abated by a licensed abatement contractor in accordance with LAUSD Specification Section 02 8213 Asbestos Abatement and Asbestos Related Disturbance

   b. 9"x9" Grey Floor Tile with Mastic, 9"x9" Light Brown Floor Tiles with Mastic and 9"x9" Tan Floor Tile with Mastic
      1) Floor tile and mastic should be removed by qualified personnel in accordance with the LAUSD Standard Specifications Section 02 8216 for the Removal of Non-Friable Asbestos Containing Floor Tile.

4. General Notes:
      1) Attics are cleared for entry by FETU.
      2) No crawlspace is present.
      3) Ceiling space is cleared for entry.

I. Building #9, Food Services 014DAP

1. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

| **MATERIALS** | **LOCATION** | **SAMPLE NO.** |
|---|---|---|
| a. Stucco Wall/Binder (ACCM) | Exterior<br>Will be disturbed by building demolition | 9707-0808 – 10<br>7/21/97<br>0906-0413 – 15<br>6/10/09 0.98% by Pt. Ct. |

2. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

| **MATERIALS** | **LOCATION** | **SAMPLE NO.** |
|---|---|---|

| | | |
|---|---|---|
| a. Sand Plaster Walls | Throughout<br>Will be disturbed by building demolition | 9812-0448 – 50<br>12/28/98 |
| b. 12”x12” Random Ceiling Tiles with Adhesive | Main Area<br>Will be disturbed by building demolition | 9812-0451 – 56<br>12/28/98 |
| c. Drywall Ceilings | Main Area<br>Will be disturbed by building demolition | 9812-0457 – 59<br>12/28/98 |
| d. Rolled Roofing | Roof<br>Will be disturbed by building demolition | 1603-0067 – 69<br>2/8/16 |
| e. Penetration Mastic | Roof<br>Will be disturbed by building demolition | 1603-0073<br>2/8/16 |
| f. Pitch Pocket Mastic | Roof around pipes<br>Will be disturbed by building demolition | 1603-0070 – 72<br>2/8/16 |

3. Recommendations for handling ACM and/or ACCM:
   a. Stucco Wall/Binder
      1) Any materials that are suspect or have been determined to contain asbestos at the site, that may be affected by demolition activities, should be isolated and abated by a licensed abatement contractor in accordance with LAUSD Specification Section 02 8213 Asbestos Abatement and Asbestos Related Disturbance

4. General Notes:
   1) No attics in the building.
   2) No crawlspaces in the building.
   3) No ceiling spaces in the building.

J. Building #10, Shop Building 015DCS

1. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

| **MATERIALS** | **LOCATION** | **SAMPLE NO.** |
|---|---|---|

| | | |
|---|---|---|
| a. 12"x12" Random Ceiling Tile (non ACM) Adhesive<br>(ACM) (concrete substrate) | Restrooms and room 173<br>Will be disturbed by building demolition | 110451 – 53; 110460 – 62<br>12/03/97 (Adhesive)<br>110448 – 50; 110463 – 65<br>12/03/97 (Ceiling Tile) |
| b. Pipe Insulation/fitting | PM office, garage, water heater room, rooms: 116, 165, 166, 168, and 171A<br>Will be disturbed by building demolition | 298<br>7/17/82 |
| c. Cement Board<br>(ACM) | Room 165 and 166 along west wall and ceiling in storage room<br>Will be disturbed by building demolition | 1603-0003 – 05<br>2/8/16 |
| d. 12"x12" Brown Floor Tile with Mastic<br>(ACM) (concrete substrate) | Plant Mangers Office and men's locker room<br>Will be disturbed by building demolition | 1603-0006 – 08<br>2/8/16 |
| e. Smooth sheet<br>(ACM) | Roof<br>Will be disturbed by building demolition | 957764 – 66<br>8/25/94 |
| f. Drywall Ceilings with Tape and Mud<br>(ACM) | Above ceiling tiles in room 173 and restrooms<br>Will be disturbed by building demolition | 110454 – 59; 110466 – 71<br>12/3/97 |
| g. 12"x12" White Floor Tile with Mastic<br>(ACM) | Room 173 and women's locker room<br>Will be disturbed by building demolition | 1603-0009 – 11<br>2/8/16 |
| h. Pitch Pocket Mastic<br>(ACCM) | Roof around pipes<br>Will be disturbed by building demolition | 1603-0097 – 99<br>2/8/16 0.85% by Pt. Ct. |
| i. Penetration Mastic<br>(ACCM) | Roof<br>Will be disturbed by building demolition | 1603-0100 – 02<br>2/8/16 0.42% by Pt. Ct. |

2. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

| **MATERIALS** | **LOCATION** | **SAMPLE NO.** |
|---|---|---|
| a. Sand Plaster Ceilings | Water heater, storage of 168, and hopper rooms<br>Will be disturbed by building demolition | 202 – 204<br>6/6/01 |
| b. Sand Plaster Walls | Throughout<br>Will be disturbed by building demolition | 0201-0387 – 88<br>1/2/02<br>44 – 46<br>6/6/01 |

| | | |
|---|---|---|
| c. Plaster Soffit | Room 173<br>Will be disturbed by building demolition | 110472 – 74<br>12/3/97 |
| d. Slag | Roof<br>Will be disturbed by building demolition | 957767 – 69<br>8/25/94 |
| e. Stucco Walls | Exterior<br>Will be disturbed by building demolition | 199 – 201<br>6/6/01 <0.1% by Pt. Ct. |
| f. Lennox Heater | Room 172 and plant managers office<br>Will be disturbed by building demolition | None Suspect |
| g. 12”x12” Wall Tile with Adhesive | Room 166, removed in 165<br>Will be disturbed by building demolition | 47 – 49<br>6/6/01<br>1603-0197 – 99<br>3/4/16 (Adhesive) |
| h. Drywall with Joint Compound | Rooms 167 and 168<br>Will be disturbed by building demolition | 50 – 55<br>6/6/01 |
| i. 4” Black Covebase with Adhesive | Plant managers office and men and women’s locker/restrooms<br>Will be disturbed by building demolition | 1603-0012 – 14<br>2/8/16 |
| j. “Reznure” Ceiling Heaters | Room 166, 167, 167<br>Will be disturbed by building demolition | None Suspect |
| k. Vibration Reducers | Receiving room and 172A<br>Will be disturbed by building demolition | Vinyl None Suspect |
| l. Tectum Ceilings | 165, 166, 167, 168<br>Will be disturbed by building demolition | None Suspect |
| m. Gray Carpet with Adhesive (concrete substrate) | Room 172<br>Will be disturbed by building demolition | 1603-0015 – 17<br>2/8/16 |
| n. 12”x12” Gray Floor Tile with Mastic (concrete substrate) | Room 172<br>Will be disturbed by building demolition | 1603-0018 – 20<br>2/8/16 |
| o. Dashcoat | Exterior over concrete<br>Will be disturbed by building demolition | 0805-0908 – 10<br>5/2/08 <0.1% by Pt. Ct. |
| p. Moisture Barrier Paper | Exterior behind stucco<br>Will be disturbed by building demolition | 0805-1911 – 13<br>5/2/08 <0.1% by Pt. Ct. |

| | | |
|---|---|---|
| q. Wall Lining | Storage garage<br>Will be disturbed by building demolition | 0809-1200 – 02<br>9/25/08 |
| r. Roof Parapet | Perimeter of roof<br>Will be disturbed by building demolition | 1603-0094 – 96<br>2/8/16 |
| s. HVAC Sealant | Roof on old unit<br>Will be disturbed by building demolition | 1603-0103 – 05<br>2/8/16 |

3. Recommendations for handling ACM and/or ACCM:
   a. 12”x12” Random Ceiling Tile Adhesive, Pipe Insulation, Cement Board, and Drywall Ceiling with Tape and Mud
      1) Any materials that are suspect or have been determined to contain asbestos at the site, that Will be affected by demolition activities, should be isolated and abated by a licensed abatement contractor in accordance with LAUSD Specification Section 02 8213 Asbestos Abatement and Asbestos Related Disturbance

   b. Smooth Sheet, Penetration Mastic, and Pitch Pocket Mastic
      1) Roofing materials should be removed by qualified personnel in accordance with the LAUSD Specifications Section 02 8219 for Asbestos Abatement of Non-Friable Roofing Material.

   c. 12”x12” White Floor Tile with Mastic and 12”x12” Brown Floor Tile with Mastic
      1) Floor tile and mastic should be removed by qualified personnel in accordance with the LAUSD Standard Specifications Section 02 8216 for the Removal of Non-Friable Asbestos Containing Floor Tile.

4. General Notes:
      1) Attics are cleared for entry by FETU on 3/4/08.
      2) No crawlspace is present.
      3) Ceiling space is cleared for entry.

K. Building #11, Gymnasium 264187

1. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

**No ACM or ACCM in building according to AHERA Certification letter dated 3/18/2009**

2. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

   **According to AHERA Certification letter dated 3/18/2009 all building materials are non-asbestos containing**

3. Recommendations for handling ACM and/or ACCM:

   No ACM or ACCM were used in the construction of this building according to AHERA Certification letter dated 3/18/2009.

4. General Notes:

   1) Attics are cleared for entry by FETU by AHERA Certification Letter.

   2) Crawlspaces are cleared for entry by FETU by AHERA Certification Letter.

   3) Ceiling space is cleared for entry.

L. Building #12, Standard Relocatable Building A2241Y

1. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

   **No ACM or ACCM in building according to AHERA Certification letter dated 3/06/2002**

2. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

   **According to AHERA Certification letter dated 3/06/2002 all building materials are non-asbestos containing**

3. Recommendations for handling ACM and/or ACCM:

   No ACM or ACCM were used in the construction of this building according to AHERA Certification letter dated 3/06/2002

4. General Notes:

   1) Attics are cleared for entry by AHERA Certification letter.

   2) Crawlspaces are cleared for entry by AHERA Certification letter.

3) Ceiling space is cleared for entry.

M. Building #13, Standard Relocatable Building A2281Z

1. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

   **No ACM or ACCM in building according to AHERA Certification letter dated 12/26/2007**

2. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

   **According to AHERA Certification letter dated 12/26/2007 all building materials are non-asbestos containing**

3. Recommendations for handling ACM and/or ACCM:

   No ACM or ACCM were used in the construction of this building according to AHERA Certification letter dated 12/26/2007

4. General Notes:

   1) Attics are cleared for entry by AHERA Certification letter.

   2) Crawlspaces are cleared for entry by AHERA Certification letter.

   3) Ceiling space is cleared for entry.

N. Building #14, Lunch Shelter P0340K

1. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

   **No ACM or ACCM found in structure**

2. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

| MATERIALS | LOCATION | SAMPLE NO. |
|---|---|---|
| a. Wood Structure | Structure<br>Will be disturbed with demolition of shelter | None Suspect |

| | | |
|---|---|---|
| b. Grey/Black Rolled Roofing | Roof<br>Will be disturbed with demolition of shelter | 1603-0064 – 66<br>2/8/16 |

No attics, ceiling spaces or crawlspaces were observed

3. Recommendations for handling ACM and/or ACCM:

   No ACM of ACCM found in structure

4. General Notes:

   1) No attics in the building.

   2) No crawlspaces in the building.

   3) No ceiling spaces in the building.

O. Building #15, 2/3 Relocatable Building X0244K

1. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

   **No ACM or ACCM were found in this building**

2. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

| **MATERIALS** | **LOCATION** | **SAMPLE NO.** |
|---|---|---|
| a. Wood Walls | Rooms B14 – B16<br>Will be disturbed with demolition of building | None Suspect |
| b. 12”x12” Random Nailed on Ceiling Tiles | Rooms B14 – B16<br>Will be disturbed with demolition of building | 79 – 81<br>6/6/01 |
| c. Stucco Walls | Exterior<br>Will be disturbed with demolition of building | 9707-0817 – 19<br>7/21/97 |
| d. Shingles/Capsheet | Roof<br>Will be disturbed with demolition of building | 707-0319 – 21<br>7/10/97 |
| e. 12”x12” Cottage Tan and Beige Mixed Floor Tiles (multi-layer with wood substrate) | Rooms B14 – B16<br>Will be disturbed with demolition of building | NEW |

| | | |
|---|---|---|
| f. 4" Brown Covebase | Rooms B14 – B16<br>Will be disturbed with demolition of building | NEW |

3. Recommendations for handling ACM and/or ACCM:

   **No ACM or ACCM was found in this building**

4. General Notes:

   1) No attics in the building.

   2) Crawlspaces are cleared by FETU.

   3) Ceiling space is cleared for entry

P. Building #16, 2/3 Relocatable Building X0347L

1. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

| MATERIALS | LOCATION | SAMPLE NO. |
|---|---|---|
| a. Multi-Layer Flooring with Mastic (ACM) (wood substrate) | Restrooms, rooms 17-18<br>Will be disturbed with demolition of building | 1605-0644 – 46<br>5/10/16 |
| b. Pitch Pocket Mastic (ACM) | Roof<br>Will be disturbed with demolition of building | 1603-0203 – 05<br>3/4/16 |

2. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

| MATERIALS | LOCATION | SAMPLE NO. |
|---|---|---|
| a. Wood Walls | Restroom, B17 – B19<br>Will be disturbed with demolition of building | None Suspect |
| b. 12"x12" Random Nailed on Ceiling Tiles | Restrooms, B18 and B19<br>Will be disturbed with demolition of building | 85 – 87<br>6/6/01 |

| | | |
|---|---|---|
| c. Stucco Walls | Exterior<br>Will be disturbed with demolition of building | 9707-0814 – 16<br>7/21/97 |
| d. 12”x12” Straight Nailed on Ceiling Tiles | Room B17<br>Will be disturbed with demolition of building | 88 – 90<br>6/6/01 |
| e. Blue Floor Sheeting (multi-layer with wood substrate) | Restrooms<br>Will be disturbed with demolition of building | New 2007 |
| f. 12”x12” Blue Floor Tile (multi-layer with wood substrate) | Rooms B17 – B19<br>Will be disturbed with demolition of building | New 2007 |
| g. 4” Blue Covebase | Rooms B17 – B19<br>Will be disturbed with demolition of building | New 2007 |
| h. Plastic Transom | Rooms B18 and B19<br>Will be disturbed with demolition of building | None Suspect |
| i. Shingles | Roof<br>Will be disturbed with demolition of building | 1603-0200 – 02<br>3/4/16 |

3. Recommendations for handling ACM and/or ACCM:
   a. Pitch Pocket Mastic
      1) Roofing materials should be removed by qualified personnel in accordance with the LAUSD Specifications Section 02 8219 for Asbestos Abatement of Non-Friable Roofing Material.
   b. Multi-Layer Flooring with Mastic
      1) Floor tile and mastic should be removed by qualified personnel in accordance with the LAUSD Standard Specifications Section 02 8216 for the Removal of Non-Friable Asbestos Containing Floor Tile.

4. General Notes:
      1) Attics are cleared for entry by FETU.
      2) Crawlspaces cleared for entry by the FETU.
      3) No ceiling space is present.

Q. Building #17, 2/3 Relocatable Building X1007M

1. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

| **MATERIALS** | **LOCATION** | **SAMPLE NO.** |
|---|---|---|
| a. Multi-Layer Flooring with Felt and Mastic (ACM) (wood substrate) | Rooms B1 and B2 under 12"x12" floor tile and wood layer<br>Will be disturbed with demolition of building | 1605-0638 – 40<br>4/10/16 |
| b. Window Putty (ACM) | Exterior | 0501-0033 – 35<br>12/29/04 |

2. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

| **MATERIALS** | **LOCATION** | **SAMPLE NO.** |
|---|---|---|
| a. Wood Walls with Compound | Room B1 and B2<br>Will be disturbed with demolition of building | 1603-0206 – 08<br>3/4/16 |
| b. 12"x12" Random Nailed on Ceiling Tiles | Room B1<br>Will be disturbed with demolition of building | 64 – 66<br>6/6/01 |
| c. Stucco Wall | Exterior<br>Will be disturbed with demolition of building | 9707-0823 – 25<br>7/21/97 |
| d. 12"x12" Straight Nailed on Ceiling Tiles | Room B2<br>Will be disturbed with demolition of building | 67 – 69<br>6/6/01 |
| e. 12"x12" Cottage Tan Floor Tile (multi-layer with wood substrate) | Room B1 and B2<br>Will be disturbed with demolition of building | NEW |
| f. 4" Brown Covebase | Room B1 and B2<br>Will be disturbed with demolition of building | NEW |
| g. Barrier Paper | Above ceiling tiles in B1 and B2<br>Will be disturbed with demolition of building | 0602-0729 – 31<br>1/20/06 |
| h. Roof Debris | Room B1 and B2 ceiling space<br>Will be disturbed with demolition of building | 0602-0732 – 34<br>1/20/06 |
| i. Penetration Mastic | Roof<br>Will be disturbed with demolition of building | 0305-1689 – 91<br>4/15/03 |
| j. Rolled Roofing | Roof<br>Will be disturbed with demolition of building | 0305-1692 – 94<br>4/15/03 |

| | | |
|---|---|---|
| k. Cap Sheet | Roof<br>Will be disturbed with demolition of building | 0603-3450 – 52<br>3/25/06 |
| l. Penetration Mastic | Roof<br>Will be disturbed with demolition of building | 0603-3453 – 55<br>3/25/06 |
| m. Plastic Transoms | Rooms B1 and B2<br>Will be disturbed with demolition of building | None Suspect |

3. Recommendations for handling ACM and/or ACCM:
   a. Multi-Layer Flooring with Felt and Mastic
      1) Floor tile and mastic should be removed by qualified personnel in accordance with the LAUSD Standard Specifications Section 02 8216 for the Removal of Non-Friable Asbestos Containing Floor Tile.

   b. Window Putty
      1) Any materials that are suspect or have been determined to contain asbestos at the site, that may be affected by demolition activities, should be isolated and abated by a licensed abatement contractor in accordance with LAUSD Specification Section 02 8213 Asbestos Abatement and Asbestos Related Disturbance

4. General Notes:
   1) No attics in the building.
   2) Crawlspace is cleared for entry by FETU on 3/18/16.
   3) Ceiling space is cleared for entry.

R. Building #18, 2/3 Relocatable Building X2082P

1. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

| **MATERIALS** | **LOCATION** | **SAMPLE NO.** |
|---|---|---|
| a. Stucco Wall<br>(ACM) | Exterior<br>Will be disturbed with demolition of building | 9707-0826 – 28<br>7/21/97 |

| | | |
|---|---|---|
| b. Maroon Flooring with Felt and Mastic (ACM) (wood substrate) | Rooms B7 and B8 under 12"x12" flooring and wood layer.<br>Will be disturbed with demolition of building | 1605-0629 – 31<br>5/5/16 |
| c. Penetration Mastic (ACM) | Roof<br>Will be disturbed with demolition of building | 0603-3447 – 49<br>3/24/06 |

2. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

| MATERIALS | LOCATION | SAMPLE NO. |
|---|---|---|
| a. Wood Walls | Room B7 and B8<br>Will be disturbed with demolition of building | None Suspect |
| b. 12"x12" Blue Floor Tile (multi-layer with wood substrate) | Rooms B7 and B8<br>Will be disturbed with demolition of building | New 3/06 |
| c. Rolled Roofing | Roof<br>Will be disturbed with demolition of building | 0305-1683 – 85<br>4/15/03 |
| d. Capsheet* | Roof<br>Will be disturbed with demolition of building | 0603-3444 – 46<br>3/24/06 <0.1% by Pt. Ct. |
| e. 4" Blue Covebase | Rooms B7 and B8<br>Will be disturbed with demolition of building | New 03/06 |
| f. Moisture Barrier Paper | Exterior under stucco<br>Will be disturbed with demolition of building | 1603-0061 – 63<br>2/8/16 <0.1% by Pt. Ct. |
| g. Tactum Ceiling | Rooms B7 and B8<br>Will be disturbed with demolition of building | None Suspect |

*Discrepancy between A-Sheet and Point Count Results

3. Recommendations for handling ACM and/or ACCM:
   a. Penetration Mastic
      1) Roofing materials should be removed by qualified personnel in accordance with the LAUSD Specifications Section 02 8219 for Asbestos Abatement of Non-Friable Roofing Material.

b. Stucco

1) Any materials that are suspect or have been determined to contain asbestos at the site, that may be affected by demolition activities, should be isolated and abated by a licensed abatement contractor in accordance with LAUSD Specification Section 02 8213 Asbestos Abatement and Asbestos Related Disturbance

c. Maroon Flooring with Felt and Mastic

1) Floor tile and mastic should be removed by qualified personnel in accordance with the LAUSD Standard Specifications Section 02 8216 for the Removal of Non-Friable Asbestos Containing Floor Tile.

4. General Notes:

1) No attics in the building.

2) Crawlspace is cleared for entry by FETU on 3/18/16.

3) No ceiling space is present.

S. Building #19, 2/3 Relocatable Building X2383P

1. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

| **MATERIALS** | **LOCATION** | **SAMPLE NO.** |
|---|---|---|
| a. Floor Sheeting with Felt and Mastic (ACM) (wood substrate) | Rooms B10 and B11<br>Will be disturbed with demolition of building | 1605-0650 – 52<br>5/10/16 |
| b. Vibration Reducers (ACM) | Heater access in room B10 and B11<br>Will be disturbed with demolition of building | Assumed |
| c. Stucco Wall (ACM) | Exterior<br>Will be disturbed with demolition of building | 9707-0811 – 13<br>7/21/97 |
| d. Penetration Mastic (ACM) | Roof<br>Will be disturbed with demolition of building | 0305-1674 – 76<br>4/14/03 |

2. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

| MATERIALS | LOCATION | SAMPLE NO. |
|---|---|---|
| a. Wood Walls | Room B10 and B11<br>Will be disturbed with demolition of building | None Suspect |
| b. Tectum Ceiling | Room B10 and B11<br>Will be disturbed with demolition of building | None Suspect |
| c. Window Putty | B11<br>Will be disturbed with demolition of building | 91 – 93<br>6/6/01 |
| d. 12”x12” Blue Floor Tile (multi-layer with wood substrate) | Rooms B10 and B11<br>Will be disturbed with demolition of building | New 03/06 |
| e. 4” Blue Covebase | Rooms B10 and B11<br>Will be disturbed with demolition of building | New 03/06 |
| f. Rolled Roofing | Roof<br>Will be disturbed with demolition of building | 0305-1671 – 73<br>4/14/03 |
| g. Capsheet | Roof<br>Will be disturbed with demolition of building | 0603-3420, 23, 26<br>3/24/06 |
| h. Penetration Mastic | Roof<br>Will be disturbed with demolition of building | 0603-3429 – 31<br>3/24/06 |
| i. Wood Transoms | Rooms B10 and B11<br>Will be disturbed with demolition of building | None Suspect |
| j. Moisture Barrier Paper | Behind Stucco<br>Will be disturbed with demolition of building | 0805-0887 – 89<br>5/2/08 <0.1% by Pt. Ct. |
| k. Light Brown Barrier Paper* | Roof<br>Will be disturbed with demolition of building | 0603-3422,25,28<br>3/24/06 <0.1% by Pt. Ct. |
| l. Mineral Wool Insulation | Roof<br>Will be disturbed with demolition of building | 0603-3421, 24,27<br>3/24/06 |

*Discrepancy between A-Sheet and Point Count Results

3. Recommendations for handling ACM and/or ACCM:
   a. Stucco and Vibration Reducers

1) Any materials that are suspect or have been determined to contain asbestos at the site, that may be affected by demolition activities, should be isolated and abated by a licensed abatement contractor in accordance with LAUSD Specification Section 02 8213 Asbestos Abatement and Asbestos Related Disturbance

b. Floor Sheeting with Felt and Mastic

1) Floor tile and mastic should be removed by qualified personnel in accordance with the LAUSD Standard Specifications Section 02 8216 for the Removal of Non-Friable Asbestos Containing Floor Tile.

c. Penetration Mastic

1) Roofing materials should be removed by qualified personnel in accordance with the LAUSD Specifications Section 02 8219 for Asbestos Abatement of Non-Friable Roofing Material.

4. General Notes:

1) No attics in the building.

2) No crawlspace in the building.

3) Ceiling space is cleared for entry.

T. Building #20, 2/3 Relocatable Building X2384P

1. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

| **MATERIALS** | **LOCATION** | **SAMPLE NO.** |
|---|---|---|
| a. Multi-Layer Flooring with Felt and Mastic (ACM) (wood substrate) | Rooms B12 and B13<br>Will be disturbed by building demolition | 1605-0647 – 49<br>5/10/16 |
| b. Vibration Reducers (ACM) | Crawlspace (Heater access)<br>Will be disturbed by building demolition | Assumed |
| c. Stucco Walls (ACCM) | Exterior<br>Will be disturbed by building demolition | 0602-1281 – 83<br>1/20/06<br>0805-0899 – 0901<br>5/2/08 0.14% by Pt. Ct. |

2. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

| MATERIALS | LOCATION | SAMPLE NO. |
|---|---|---|
| a. Wood Walls | Rooms B12 and B13<br>Will be disturbed by building demolition | Non-Suspect |
| b. Tectum Ceiling | Rooms B12 and B13<br>Will be disturbed by building demolition | Non-Suspect |
| c. 12”x12” Sand Brown Floor Tile with Mastic (multi-layer with wood substrate) | Rooms B12 and B13<br>Will be disturbed by building demolition | 0012-0986 – 88<br>12/6/00 |
| d. 12”x12” Light Brown/Cottage Tan Floor Tiles with Mastic (multi-layer with wood substrate) | Room B13 patch<br>Will be disturbed by building demolition | 0012-0989 – 91<br>12/6/00 |
| e. 12”x12” Blue Floor Tile (multi-layer with wood substrate) | Room B12<br>Will be disturbed by building demolition | New as of 2007 |
| f. Rolled Roofing | Roof<br>Will be disturbed by building demolition | 0305-1677 – 79<br>4/15/03 |
| g. Penetration Mastic | Roof<br>Will be disturbed by building demolition | 0305-1680 – 82<br>4/15/03 |
| h. Capsheet | Roof<br>Will be disturbed by building demolition | 0603-3432, 35, 38<br>3/24/06 |
| i. Light Brown Mineral Wool Insulation* | Roof<br>Will be disturbed by building demolition | 0603-3433, 36, 39<br>3/24/06 |
| j. 4” Brown Covebase | Room B12 and B13<br>Will be disturbed by building demolition | 1603-0021 – 23<br>2/8/16 |
| k. Wood Transoms | Rooms B12 and B13<br>Will be disturbed by building demolition | Non-Suspect |
| l. Moisture Barrier Paper | Behind stucco exterior<br>Will be disturbed by building demolition | 0805-0890 – 92<br>5/2/08 <0.1% by Pt. Ct. |
| m. Barrier Paper* | Roof<br>Will be disturbed by building demolition | 0603-3434, 37, 40<br>3/24/06 <0.1% by Pt. Ct. |
| n. 4” Blue Covebase | Room B12<br>Will be disturbed by building demolition | New Non-Suspect |

*Discrepancy with A-Sheets and point count results

3. Recommendations for handling ACM and/or ACCM:

   a. Stucco Walls and Vibration Reducers

      1) Any materials that are suspect or have been determined to contain asbestos at the site, that may be affected by demolition activities, should be isolated and abated by a licensed abatement contractor in accordance with LAUSD Specification Section 02 8213 Asbestos Abatement and Asbestos Related Disturbance

   b. Multi-Layer Flooring with Felt and Mastic

      1) Floor tile and mastic should be removed by qualified personnel in accordance with the LAUSD Standard Specifications Section 02 8216 for the Removal of Non-Friable Asbestos Containing Floor Tile.

4. General Notes:

   1) No attics in the building.

   2) Crawlspace is cleared for entry by FETU.

   3) No ceiling space is present.

U. Building #21, Two Story Relocatable Building Z0182S

1. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

| **MATERIALS** | **LOCATION** | **SAMPLE NO.** |
|---|---|---|
| a. Drywall Wall with Tape and Mud (ACM) | Rooms B3 – B6<br>Will be disturbed with demolition of building | 962917 – 19<br>12/12/94<br>73 – 75<br>6/6/01 |
| b. Cement Boards (ACM) | Rooms B3 – B6 under windows<br>Will be disturbed with demolition of building | 1603-0058 – 60<br>2/8/16 |
| c. Grey Dex-o-Tex (ACM) | Deck Coating 2nd Floor<br>Will be disturbed with demolition of building | 0303-2468 – 70<br>3/12/03 |

| | | |
|---|---|---|
| d. Yellow Duct Seam Sealant (ACM) | Room B3 and B4 inside duct enclosures Will be disturbed with demolition of building | 1603-0055 – 57 2/8/16 |
| e. 12”x12” Brown/Orange Floor Tile with Mastic (ACM) (concrete substrate) | Rooms B3 and B4 Will be disturbed with demolition of building | 1603-0039 – 41 2/8/16 |

2. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

| **MATERIALS** | **LOCATION** | **SAMPLE NO.** |
|---|---|---|
| a. 2’x4’ Random Ceiling Tiles | Rooms B3 – B6 Will be disturbed with demolition of building | 9903-0308 – 10 3/11/99 |
| b. Stucco Walls | Exterior Will be disturbed with demolition of building | 963328 – 30 12/13/94 0303-2471 – 73 3/12/03 <0.1% by Pt. Ct. |
| c. Acoustic Plaster Ceiling | Double Arcade Will be disturbed with demolition of building | 70 – 72 6/6/01 <0.1% by Pt. Ct. |
| d. Tar on Base Plate | Roof Will be disturbed with demolition of building | 0101-0490 – 92 1/10/01 |
| e. 4” Brown Covebase with Adhesive | Rooms B3, B4, B6 Will be disturbed with demolition of building | 76 – 78 6/6/01 |
| f. 12”x12” Blue Floor Tile (wood substrate) | Rooms B5 and B6 Will be disturbed with demolition of building | NEW |
| g. 4” Blue Covebase | Room B5 and B6 Will be disturbed with demolition of building | NEW |
| h. Moisture Barrier Paper | Exterior behind stucco Will be disturbed with demolition of building | 0805-0893 – 95 5/2/08 |
| i. 12”x12” Brown Floor Tile Patch with Yellow Mastic (concrete substrate) | Room B4 Will be disturbed with demolition of building | 1603-0042 – 44 2/8/16 |
| j. White Canvas Sealant | Fiberglass insulation in room B5 Will be disturbed with demolition of building | 1603-0045 2/8/16 |

| | | |
|---|---|---|
| k. Pitch Pocket Mastic | Roof around pipes<br>Will be disturbed with demolition of building | 1603-0046 – 48<br>2/8/16 |
| l. Penetration Mastic | Roof<br>Will be disturbed with demolition of building | 1603-0049 – 51<br>2/8/16 |
| m. Rolled Roofing | Roof<br>Will be disturbed with demolition of building | 1603-0052 – 54<br>2/8/16 |

3. Recommendations for handling ACM and/or ACCM:
   a. Drywall with Tape and Mud, Cement Boards, Grey Dex-o-Tex, and Yellow Duct Seam Sealant
      1) Any materials that are suspect or have been determined to contain asbestos at the site, that may be affected by demolition activities, should be isolated and abated by a licensed abatement contractor in accordance with LAUSD Specification Section 02 8213 Asbestos Abatement and Asbestos Related Disturbance

   b. 12”x12” Brown/Orange Floor Tile with Mastic
      1) Floor tile and mastic should be removed by qualified personnel in accordance with the LAUSD Standard Specifications Section 02 8216 for the Removal of Non-Friable Asbestos Containing Floor Tile.

4. General Notes:
      1) No attics in the building.
      2) No crawlspace in the building.
      3) Ceiling space is cleared for entry.

## V. General Recommendations and Notes

All suspect construction materials not identified above are presumed asbestos-containing. All attics and crawl spaces not specified herein as clear for normal access and ceiling spaces not inspected and identified as absent of contamination are to be considered asbestos-contaminated areas. If materials not identified in this report will be disturbed or if attics, crawl spaces or ceiling spaces not identified in this report as clear of contamination are to be accessed during construction, notify IOR or OAR. They will contact the Facilities Environmental Technical Unit for further direction prior to disturbance of these materials or access of the contaminated spaces.

## VI. Lead Related Construction / Impact to Coated Surfaces

A. The buildings and grounds involved with this project were built: 001CBJ – 1936; 002BAJ, 003BCJ and 004BDJ – 1937; 005BCJ – 1939; 006CBJ – 1938; 010DAP – 1961; 013BCP – 1964; 014DAP, X2383P and X2384P – 1962; 015DCS – 1971; 264187 – 2008; A2242Y – 1999; A2281Z – 2001; P0340K – wood shelter no date; X0244K – 1935; X0347L – 1947; X1007M – 1950; X2082P – 1960; Z0182S – 1972.

B. Renovation, repair or painting work performed on buildings constructed prior to 1978 require special handling and environmental monitoring when coated surfaces including, but not limited to, painted, varnished, and glazed surfaces are impacted. Coated surfaces applied prior to 1978 are assumed to be lead-based. All work shall be performed in compliance with Facilities Standard Specification, Section 02 8333, "Lead Abatement and Lead Related Construction Work." XRF testing methodology is not acceptable in determining negative for lead content for Cal/OSHA compliance purposes, except for notification requirements. XRF may be used in determining lead-based paint for compliance with the U.S.E.P.A. Renovator, Repair, and Painting Rule. Disturbance of coated surfaces by contractors will be monitored by qualified District staff or Environmental Consultant sufficient to ensure that proper training and work procedures, cleanup, and waste handling are employed.

C. Loose or flaky paint that will be disturbed during the work of this project or in close proximity of the work area shall be stabilized by removing the loose or flaky paint and leaving only paint in stable condition.

D. It should be noted that any coated surfaces and building materials not listed above are to be considered to be lead-based and asbestos-containing respectively. Should the project require the disturbance of these surfaces and building materials, the FETU shall be notified.

If any changes occur in the scope of work, notify the Consultant or the FETU immediately before further commencement of work.

This report may not be changed, modified or include additions without the express written permission from the FETU.

If you have any questions regarding this report, contact the FETU at (213) 745-1450.

Signatures below certify that the information contained herein has been proofread and is technically accurate.



Edward D. Spinney, CAC #00-2795



For Glenn Colquitt
Glenn Colquitt, CSST #14-5219

## VII. Confidentiality and Limitations

CNS's findings, conclusions and recommendations found in this report are based on the information that was made available to CNS on March 3, 2016 and May 10, 2016. The information in this report is relevant to the date of the site visit and should not be relied on to represent conditions at any later date. The opinions and conclusions expressed in this report are based on information obtained during our assessment and on our experience and current standards of technical practice.

CNS makes no other warranties, either express or implied, concerning the completeness of the data furnished to us. CNS cannot be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time our assessment was undertaken. CNS is neither responsible nor liable for work, testing or recommendations performed or provided by others.

This Asbestos Engineering Assessment Report is not and should not be construed as a warranty or guarantee about the presence or absence of environmental hazards or contaminants that may affect the subject site. Facts, conditions, and acceptable risk factors change with time; accordingly, this report should be viewed within this context.

# APPENDIX A: Analytical Results from Samples

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

LOCATION 8850
APPLICATION NO. 221

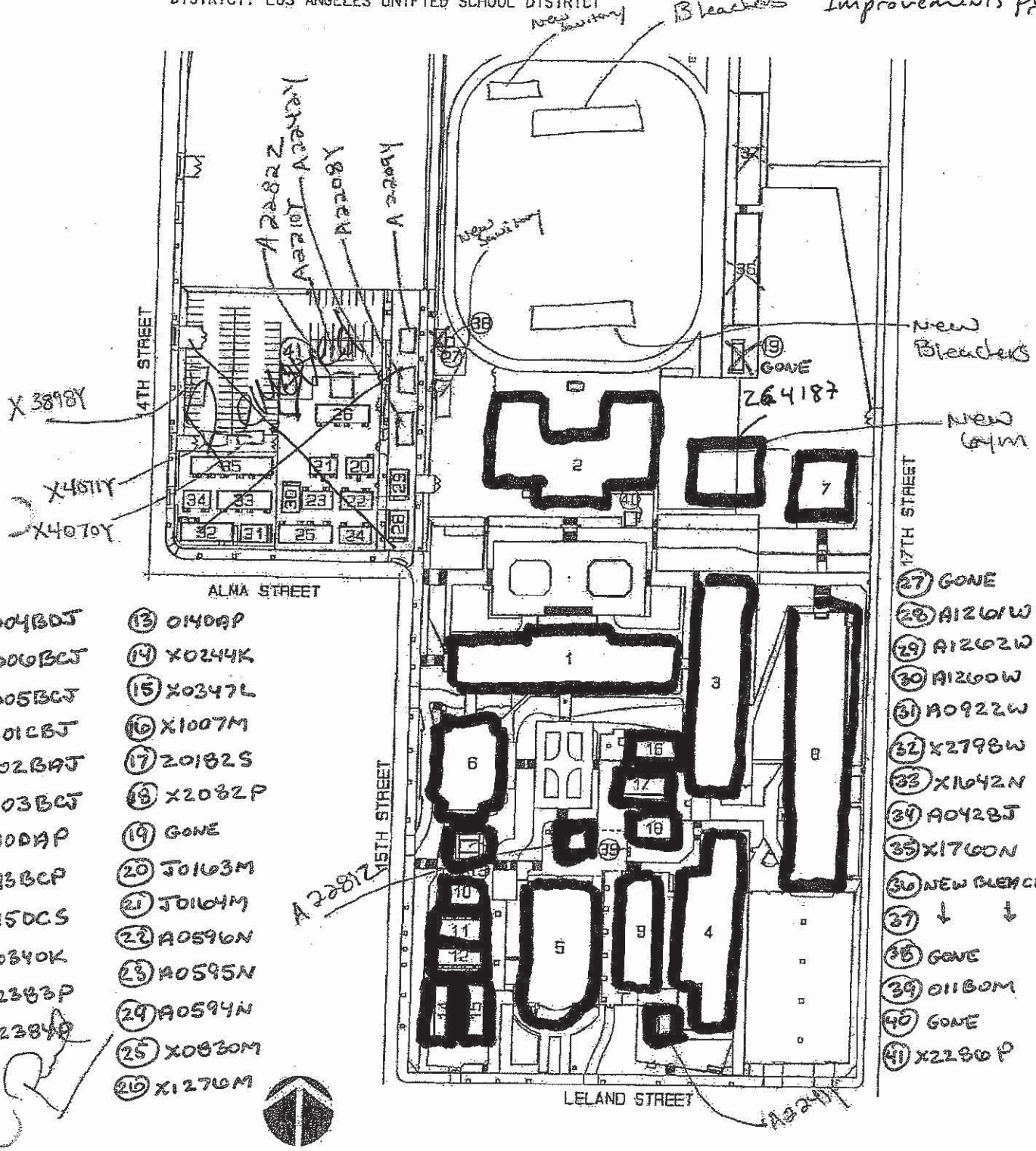
SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

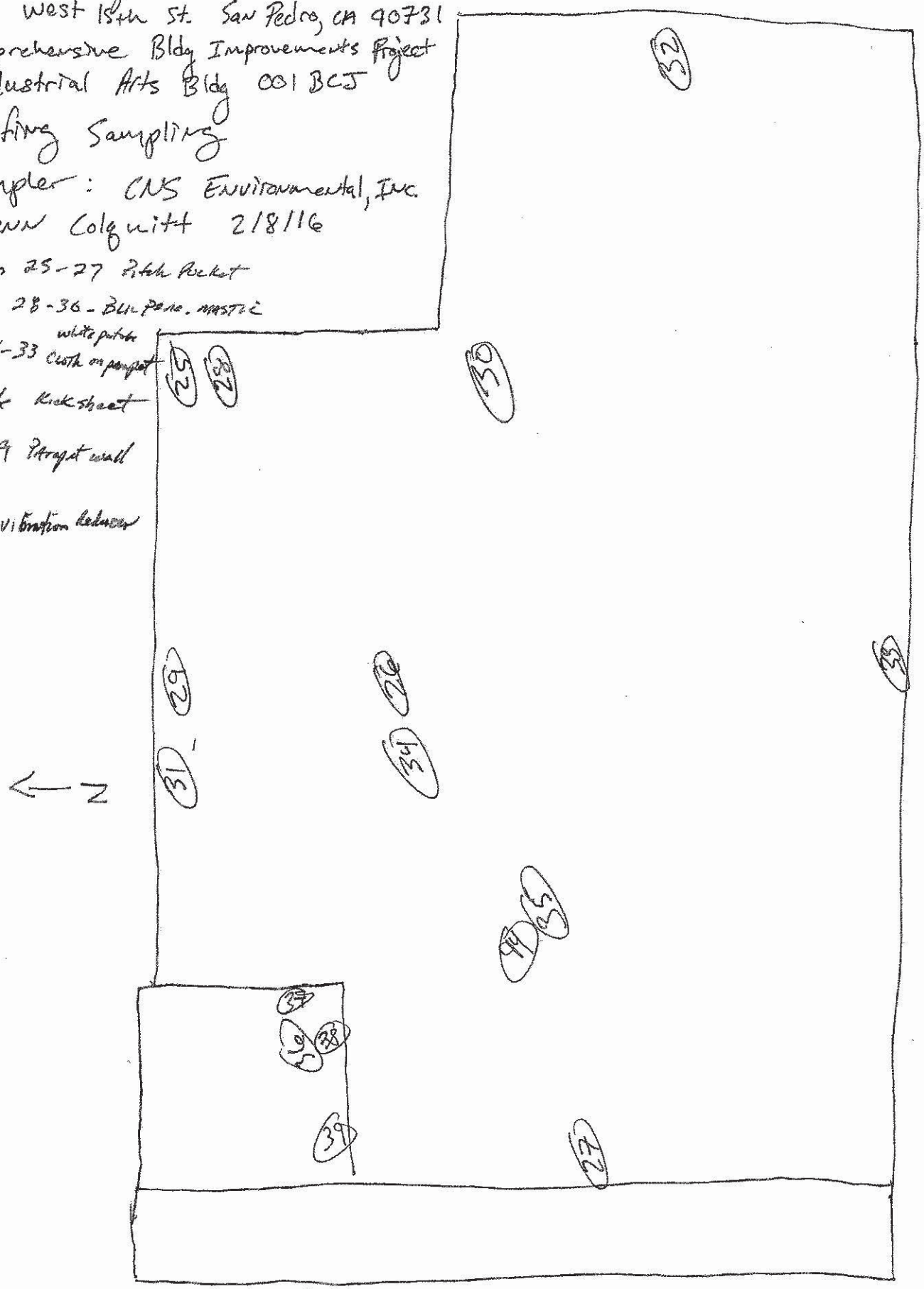
Inspector: Glenn Colquitt
CNS Environmental, I

New Comprehensive Bldg Improvements Project


New Bleachers
New Gym
X 3898Y
X4011Y
X4070Y
A 22892
A 22893
A 22894
A 22895
A 22896
A 22897
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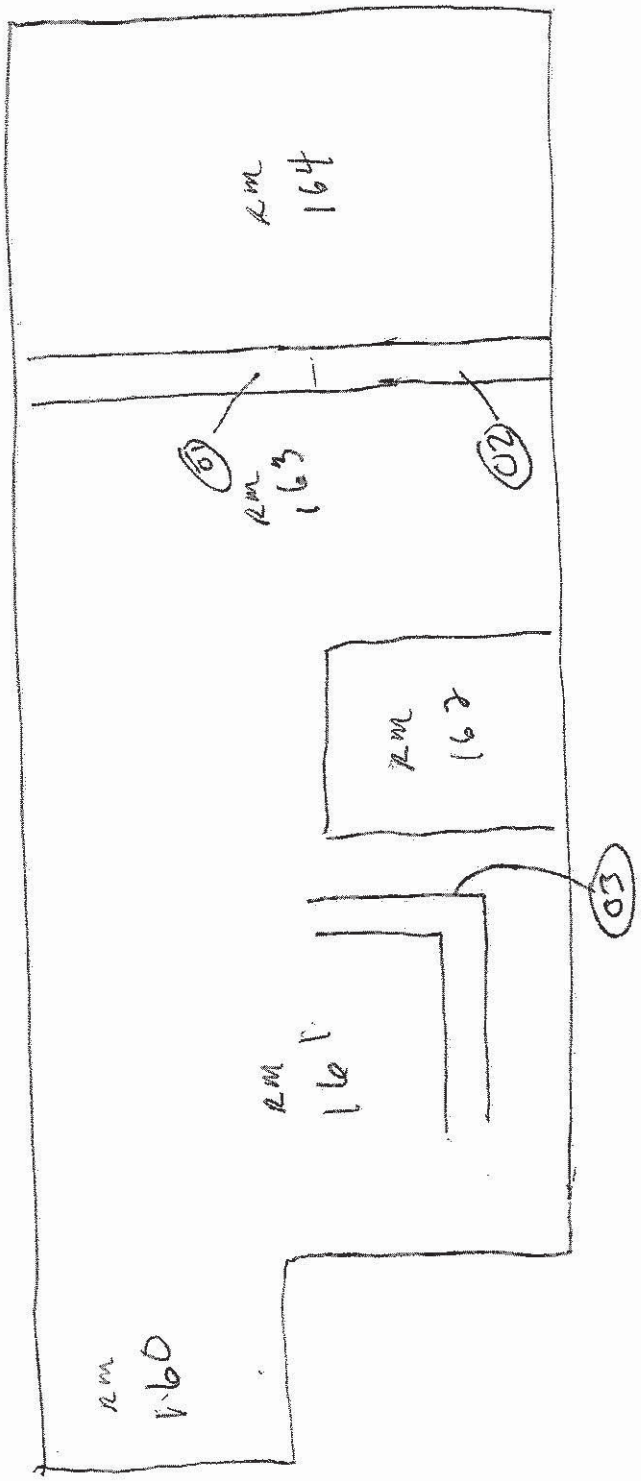
San Pedro High School #8850
1001 West 15th St. San Pedro, CA 90731
Comprehensive Bldg Improvements Project
Industrial Arts Bldg 001 BCJ
Roofing Sampling
Sampler: CAS Environmental, Inc.
Glenn Colquitt 2/8/16

# Samples 25-27 Pitch Pocket
# 28-30 Blue Pens. Mastic
# 31-33 White patch cloth on parapet
# 34-36 Kick sheet
# 37-39 Parapet wall
# 94 Vibration deducer



San Pedro High School #8850
1001 West 15th St. San Pedro, CA 90731
Industrial Arts Bldg 001 CBJ

Samples 01-03 : Grey HVAC Seam Sealant
Sampler: CMS Environmental Inc
Glenn Colgwith
02/08/16
Campus Modernization Project




N

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

LOCATION 8850
APPLICATION NO. 22/
DRAWING SNRO4F1

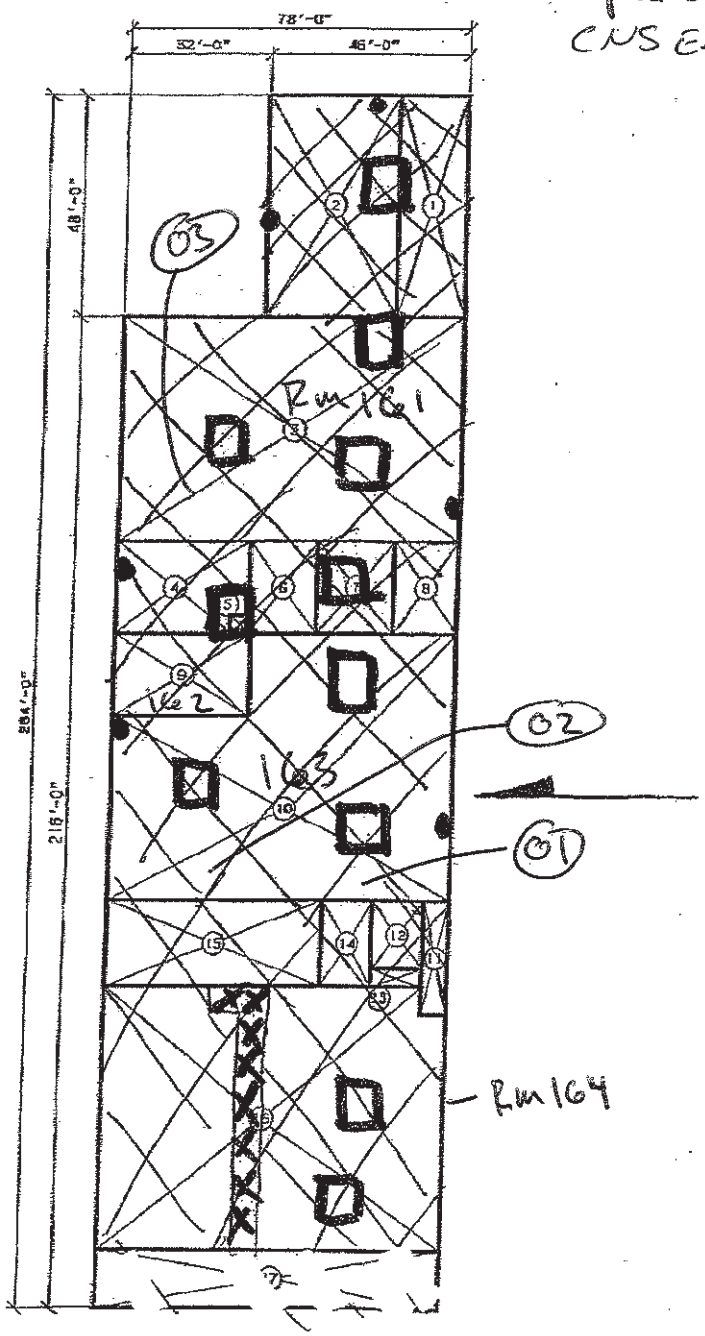
SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 4
Industrial Arts Bldg
~~001CBE~~
001CBJ

Sampled by: Glenn Colquitt
CNS Environmental, Inc




= Parapet wall
Approx. 100ft²

= Penetration mastic
Approx 400ft²

= Pitch Pocket Mastic
Approx. 180ft²

● = Brown/white Patch cloth
Approx. 30ft²

= Kicksheet.
Approx 4150ft²

PLOT SCALE: 1"=30'-0"

AUTHORIZED AGENT

DATE: 06/16/01

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

LOCATION 8850
APPLICATION NO. 22/
DRAWING SNR04F1

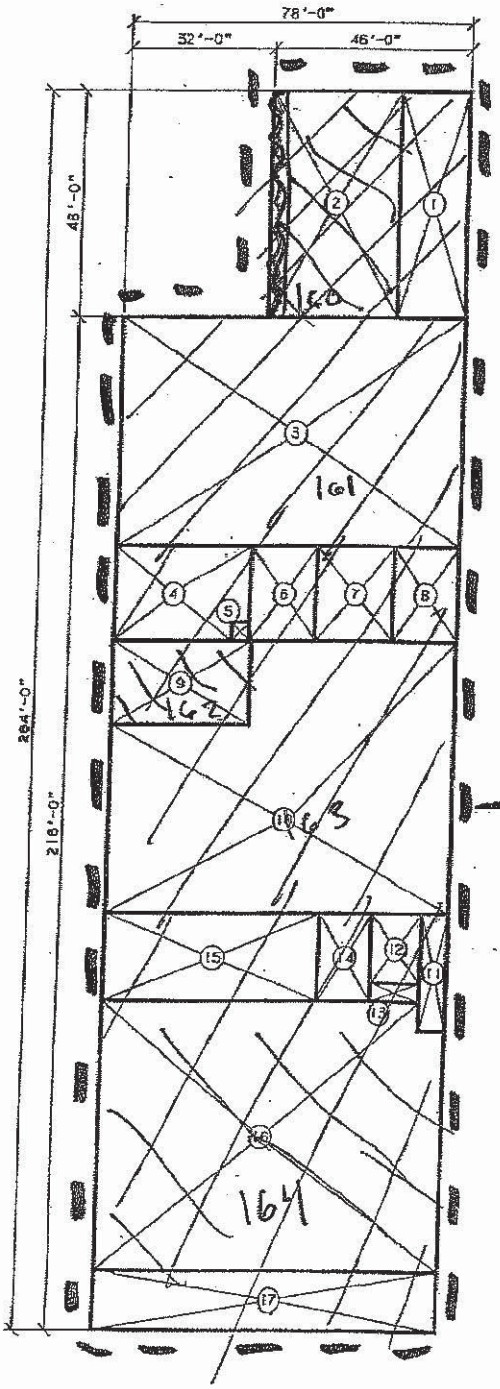
SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 4
Industrial Arts Bldg
~~001CBF~~
001CBJ

Sampler:
Glenn Colquitt
2/18/16




= Drywall tape & Mud
6,477 ☐

= Brick splash / Cement Base
48 ☐

= Smooth Sheet Roof
18,000 ☒

= Stucco
12,000 ☐

PLOT SCALE: 1"=30'-0"

AUTHORIZED AGENT

DATE: 06/16/91

SCHOOL: SAN PEDRO HIGH SCHOOL

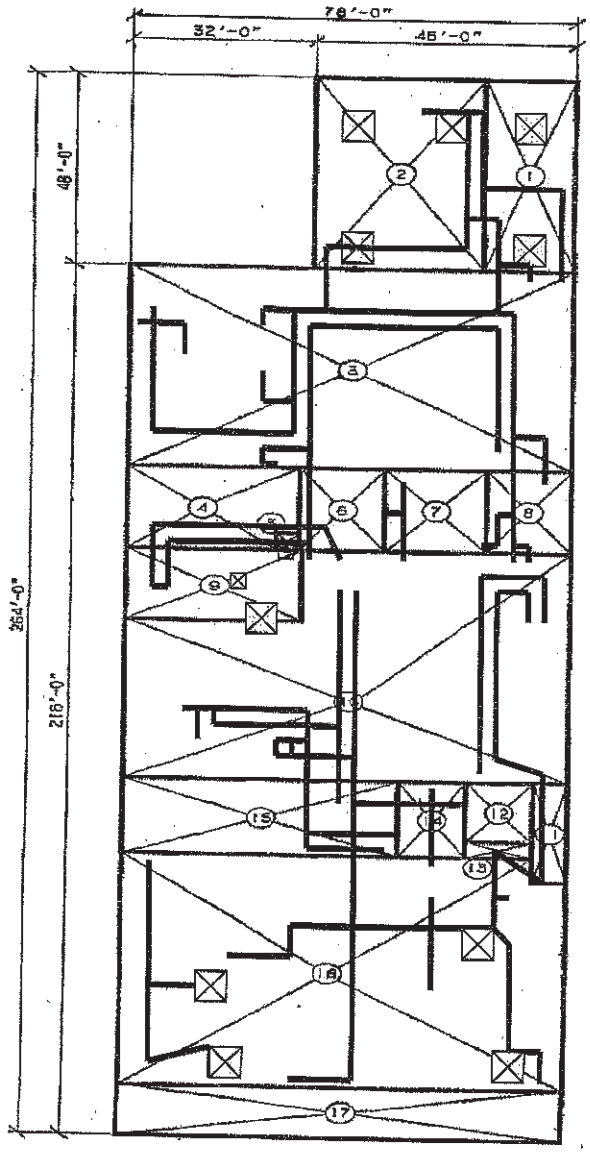
ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

DRAWING SHEET 1

BUILDING 4
Industrial Arts Bldg

001CBJ




☒ = Access to attic or ceiling space

Approx. 120 linear feet of 2" pipe
Approx. 140 linear feet of 6" pipe
Approx. 160 linear feet of 8" pipe
Approx. 36 elbows = ⊤ ⌐

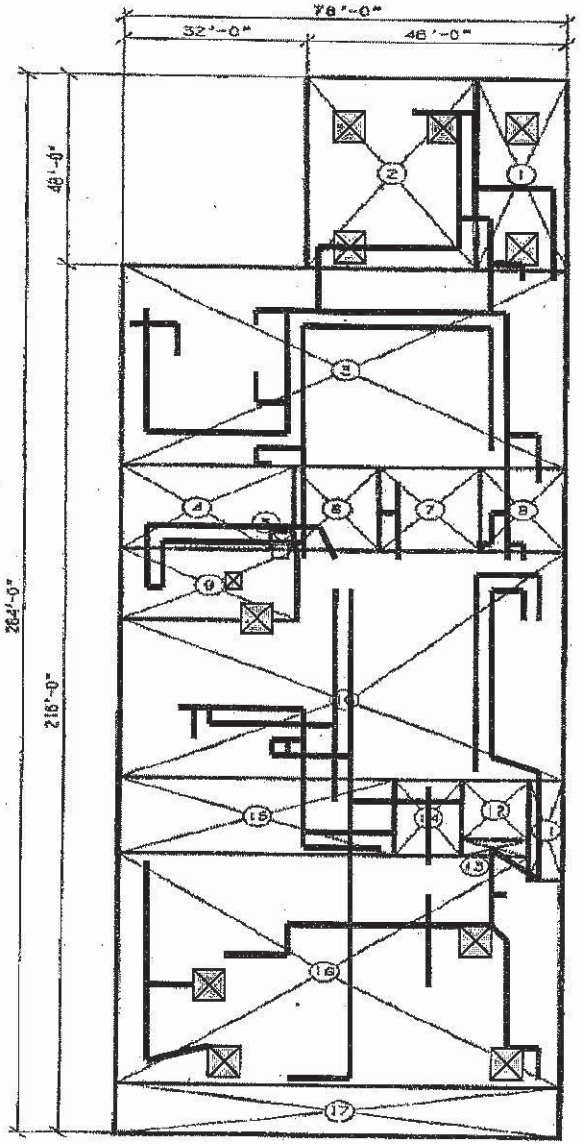
Inspector: Glenn Colquitt
CNS Environmental, Inc.
2/8/16

SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 4
Industrial Arts Bldg
001CBJ

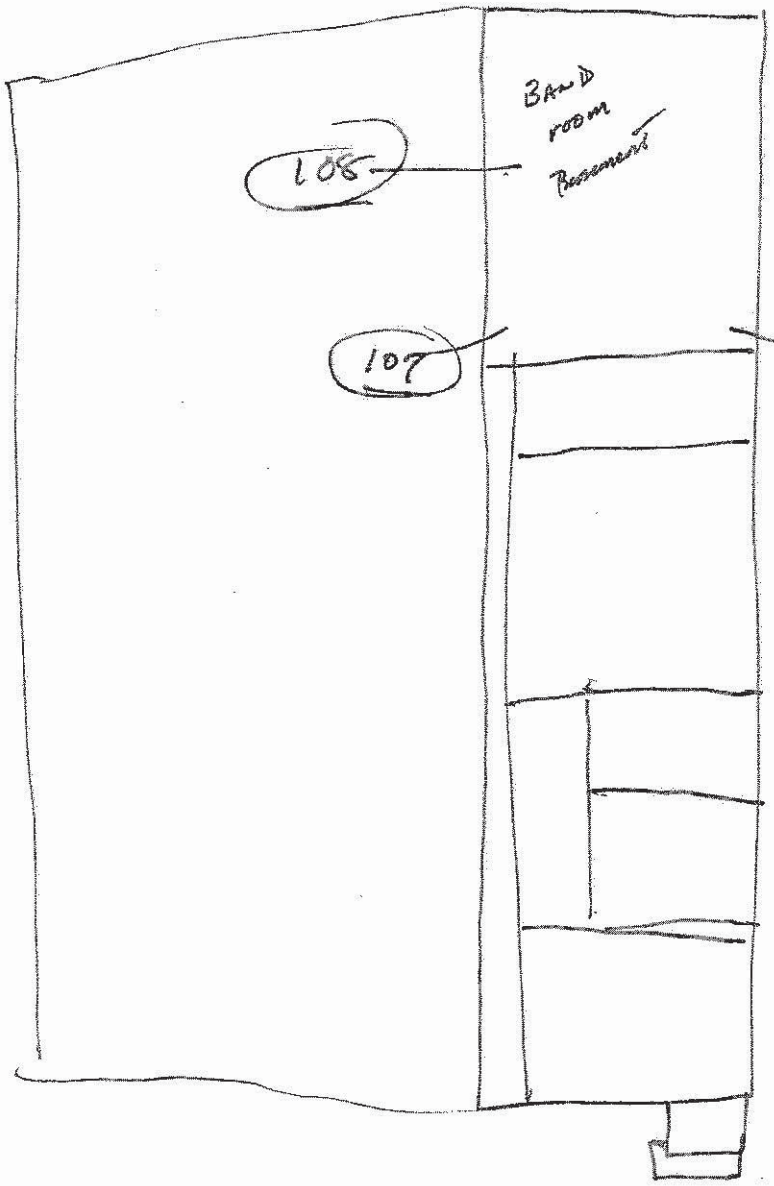



☒ = Access to attic or ceiling space

Approx. 120 linear feet of 2" pipe
Approx. 140 linear feet of 6" pipe
Approx. 160 linear feet of 8" pipe
Approx. 36 elbows = T ⌐

Inspector: Glenn Colquitt
CNS Environmental, Inc.
2/8/16

N →




SAN Pedro H.S. 88.50
1001 W. 15th ST
San Pedro, CA 90731
Comprehensive Campus Modernization Project
Auditorium BLD 002 BAJ
BAND room Basement
Sampled by CWS EW-
Glenn Colquitt
Date 2-8-16
3 samples 107-109
12x12 ct. w/ adhesive.
Straight hole ceiling

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

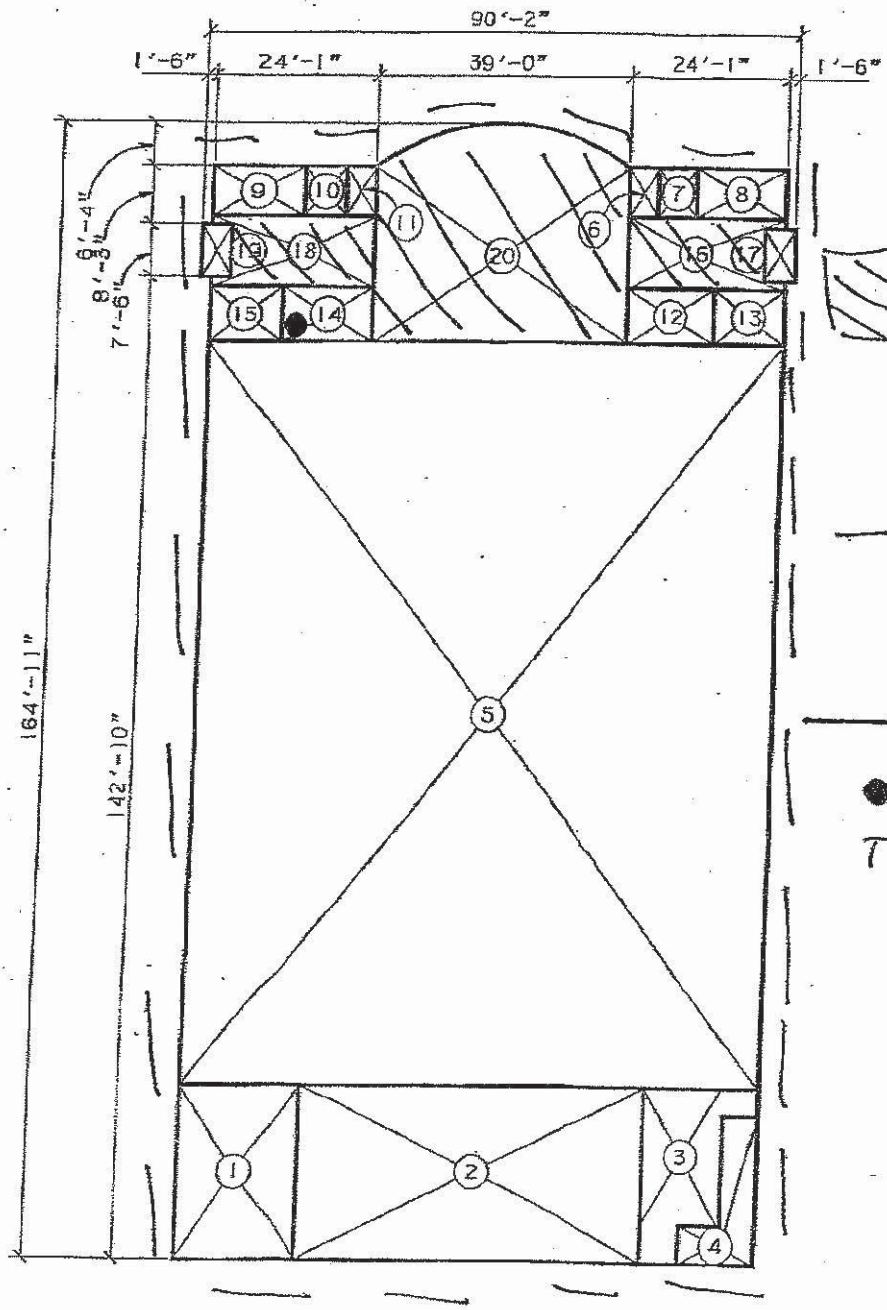
LOCATION 8850

APPLICATION NO. 22/

DRAWING SNRO5F1

BUILDING 5
FIRST FLOOR

Auditorium Bldg
002 BAS




= Acoustical Plaster Ceiling 1,588 SF

= Exterior Dashcoat 100,000 SF

● = 10" 16ft TSI Pipe w/ Stickers

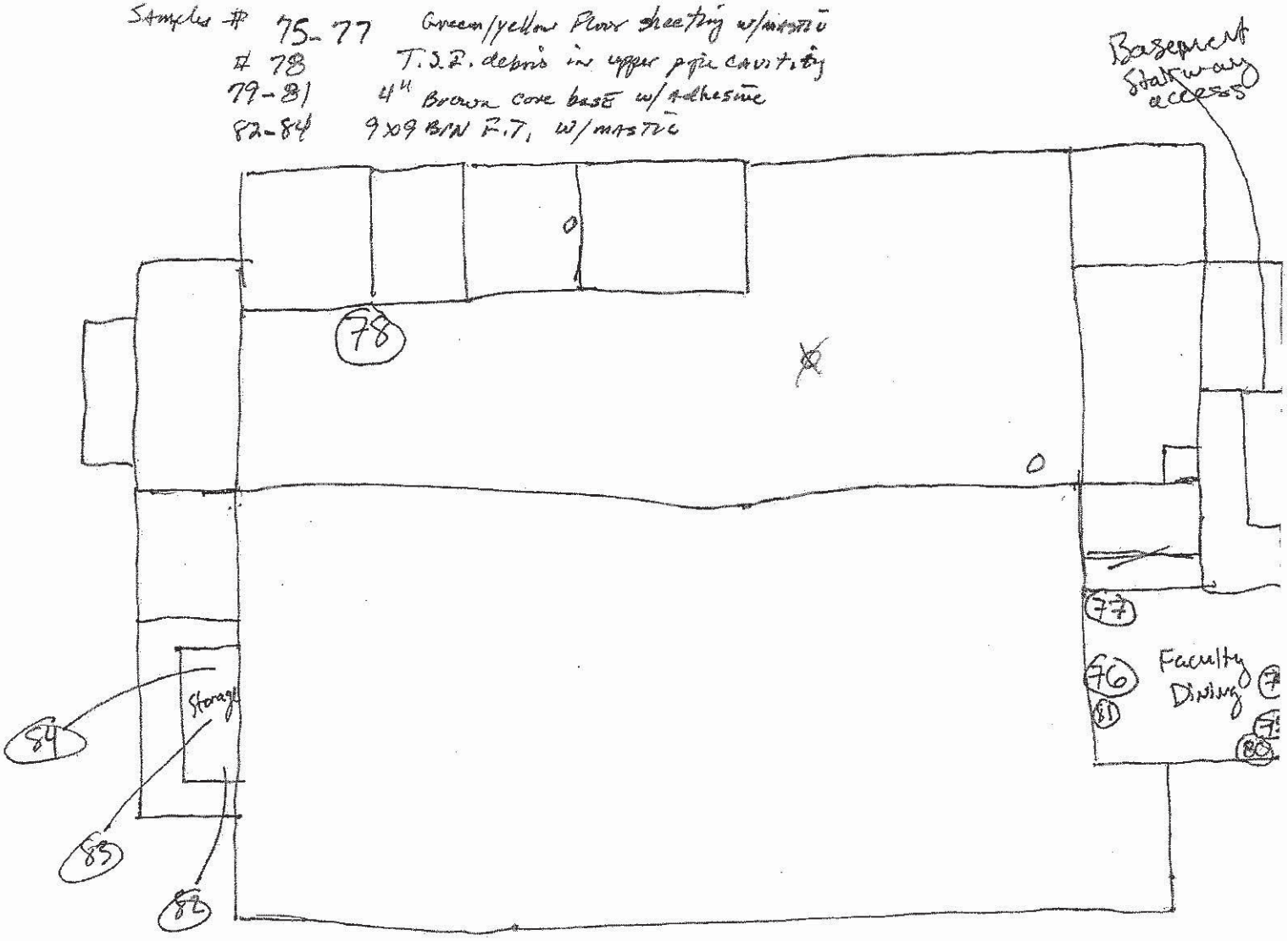
PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT

DATE: 06/16/01

San Pedro High School #8850
1001 West 15th St. San Pedro, CA 90731
Comprehensive Campus Modernization Project
Home Economics Building 003BCJ First Floor
Sampler: Glenn Colquitt
CNS Environmental, Inc.
2/8/16

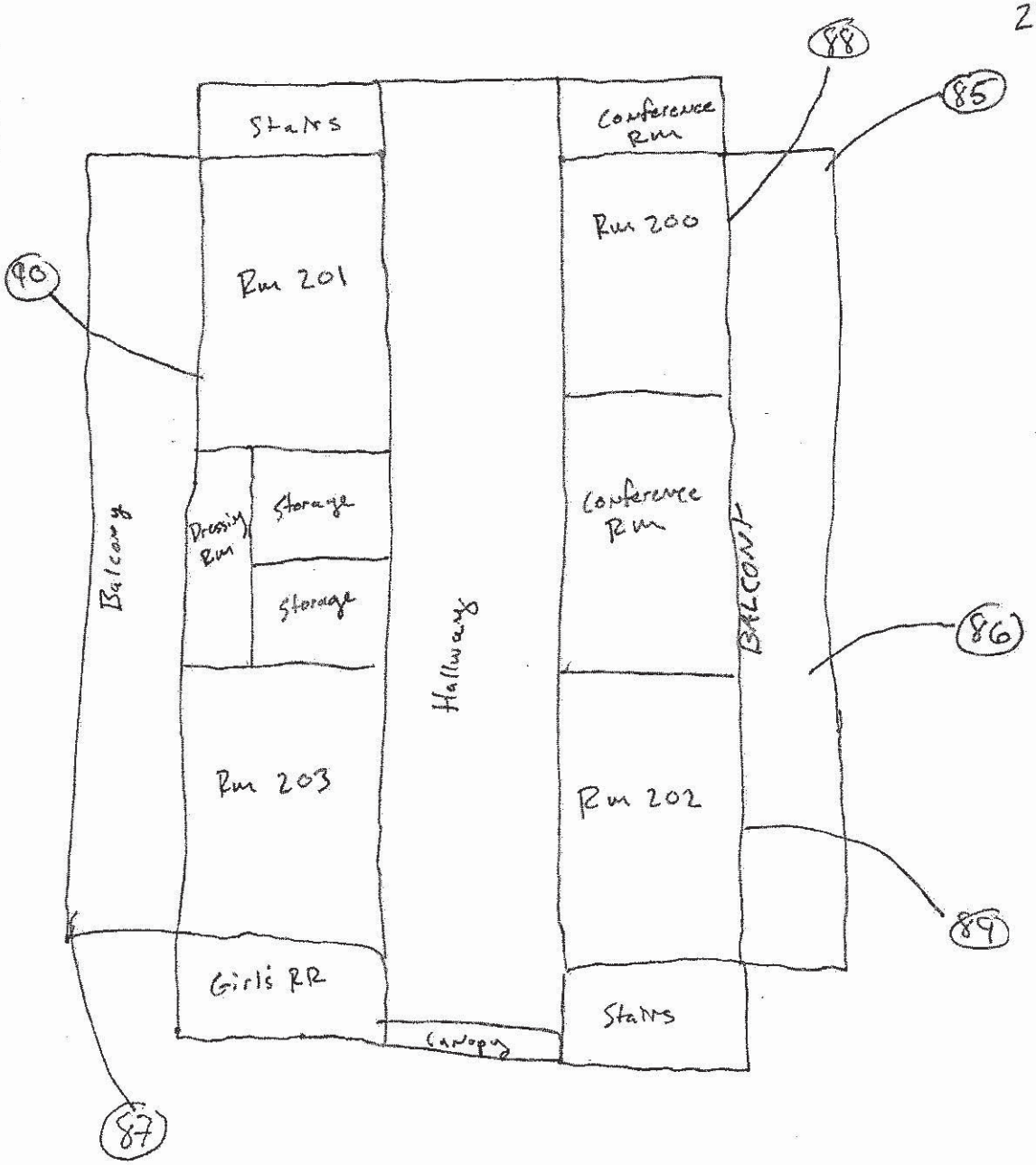
Samples # 75-77 Green/yellow floor sheeting w/mastic
# 78 T.S.P. debris in upper pipe cavity
79-81 4" Brown cove base w/adhesive
82-84 9x9 B/N F.T. w/mastic




N

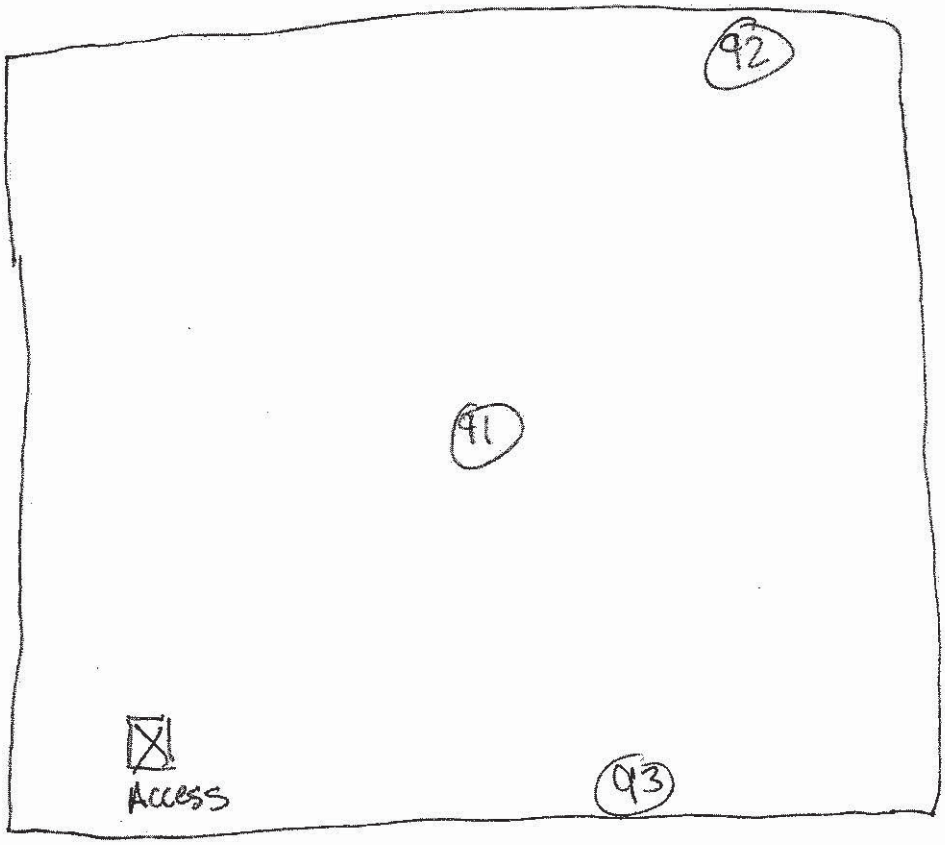
San Pedro High School #8850
1001 West 15th St. San Pedro, CA 90731
Comprehensive Campus Modernization Project
Home Economics Building #003 B/S 2nd Floor
Sampler: CNS Environmental, Inc
Glenn Colquitt
2/18/16

#85 - 87: Penetration mastic
#88 - 90: Window Putty




N →

San Pedro HS #8850
1001 west 15th St. San Pedro, CA 90731
Comprehensive Campus Modernization Project
Home Economics Building 003BCJ
Roof
Sample #91-93 : Pitch Pocket Mastic
Sampler: Glenn Colewith
CNS Environmental, Inc.
2/8/16




N →

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850
APPLICATION NO. 22/
DRAWING SNR06F1

BUILDING 6
FIRST FLOOR
Home Economics
003BCJ

= Access Hatch

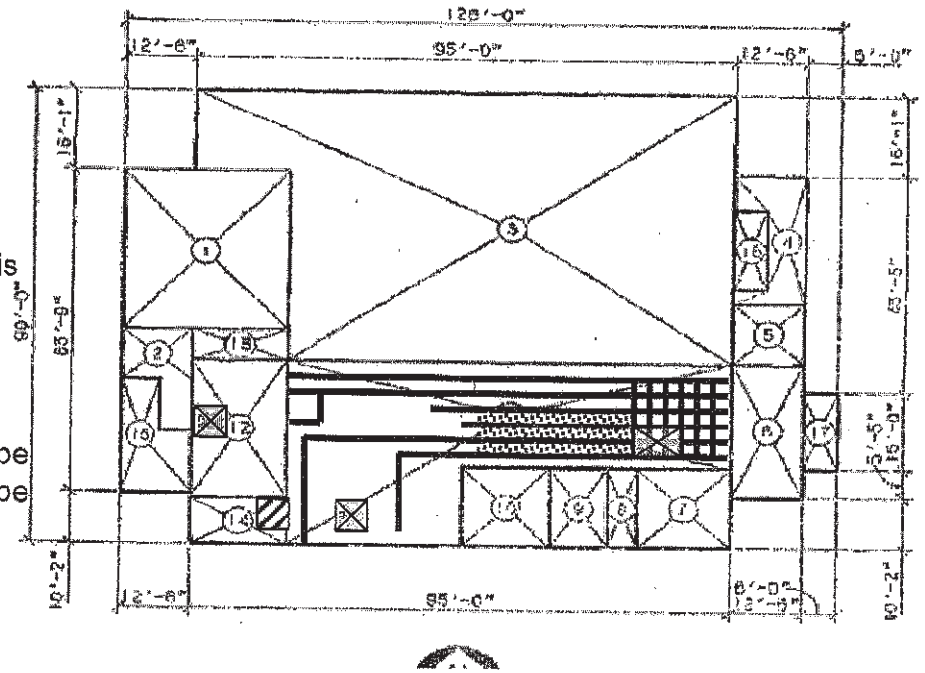
= Approx 25 linear feet of 2" pipe and 8 elbows

= Cut TSI Piping and Debris

=TSI Piping

Approx. 100 Linear Feet of 2" Pipe
Approx. 200 Linear Feet of 6" Pipe
Approx. 20 Elbows

Inspected by:
Glenn Colquitt



LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: SAN PEDRO HIGH SCHOOL

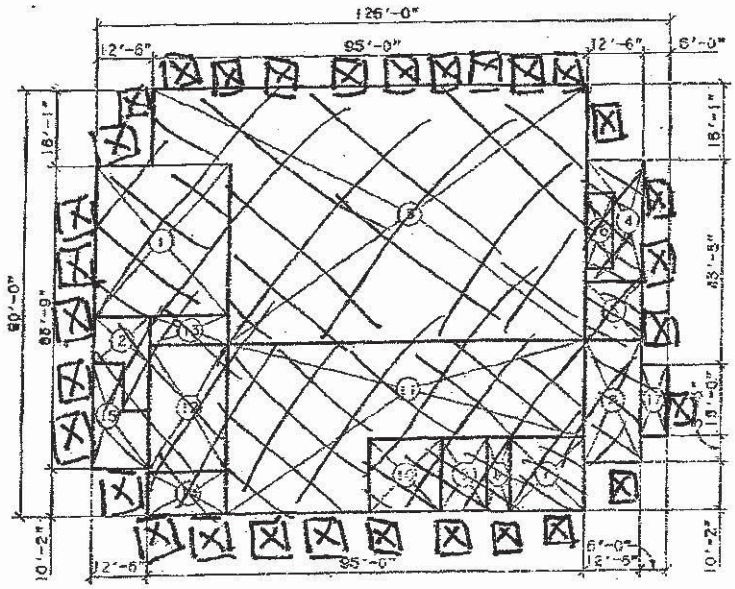
ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850
APPLICATION NO. 22/
DRAWING SNR06F1

BUILDING 6
FIRST FLOOR
Home Economics
003BCJ

Exterior Roof




: Roof Capsheet 98 sq ft

: Smooth Sheet Roof 9,800 ☐

IX Exterior Window Putty

PLOT SCALE: 1"=30'-0"

AUTHORIZED AGENT

DATE: 06/16/91

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 6
FIRST FLOOR
Home Econ
003 Bet

~2300 ☑
= 9x9 Brown FT w/ mastic

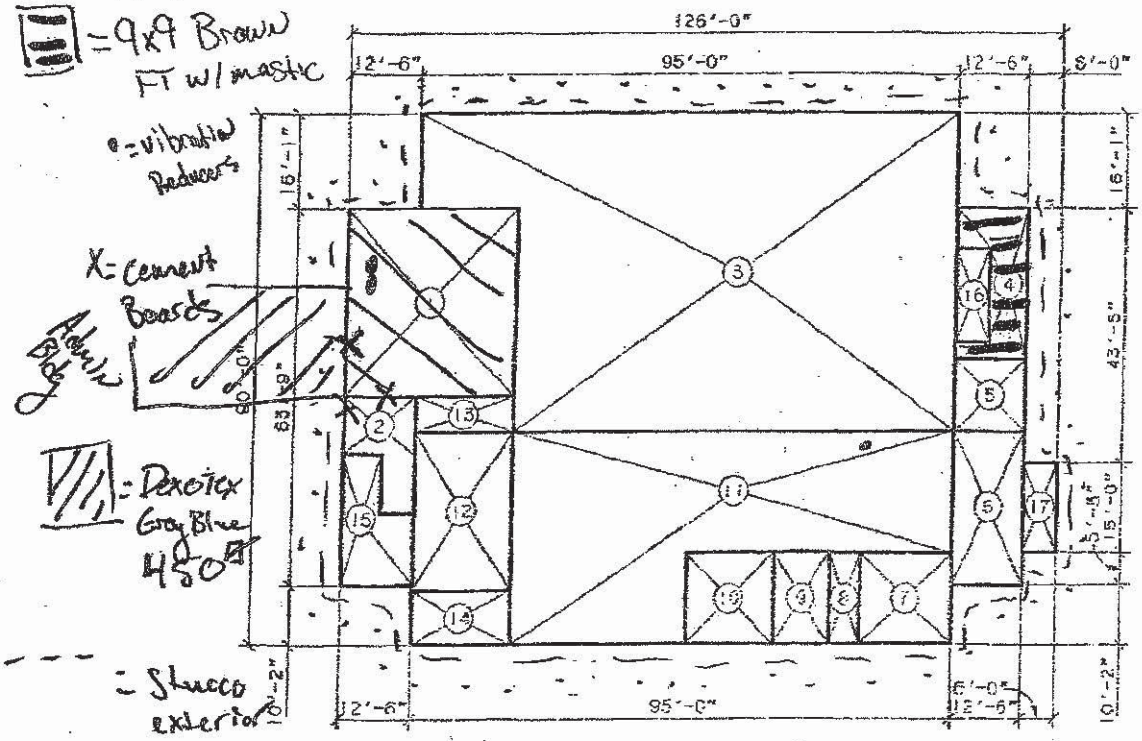
o = vibration Reducers

X = cement Boards

= Dexotex Gray Blue 450 ☑

= Stucco exterior

28,000 ☑




= 926 ☑
Sand Plaster ceiling

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

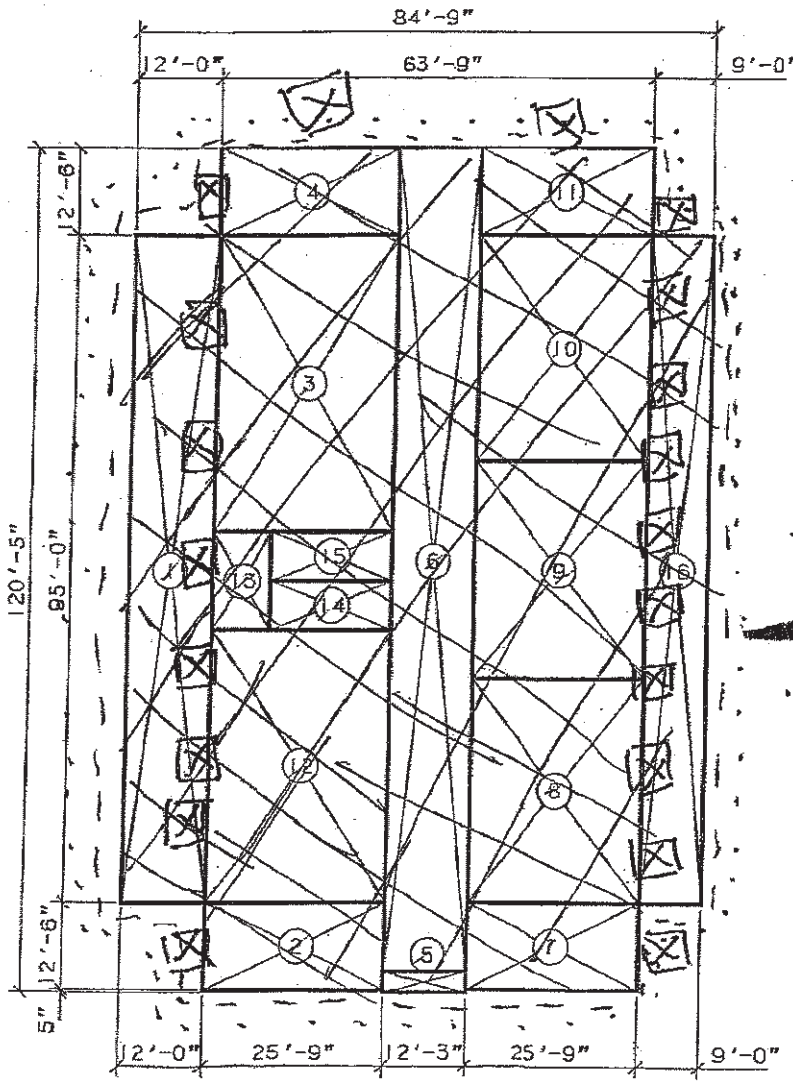
SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850
APPLICATION NO. 221
DRAWING SNR06F2

BUILDING 6
SECOND FLOOR
Home Economics
003BCJ




= Smooth Sheet Roofing 17,500 ☐

= Cap Sheet Roofing 17,500 ☐

--- = Stucco exterior 33,000 ☐

~~Deck Coat~~ cc

☒ = exterior window putty

PLOT SCALE: 1"=20'-0"

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

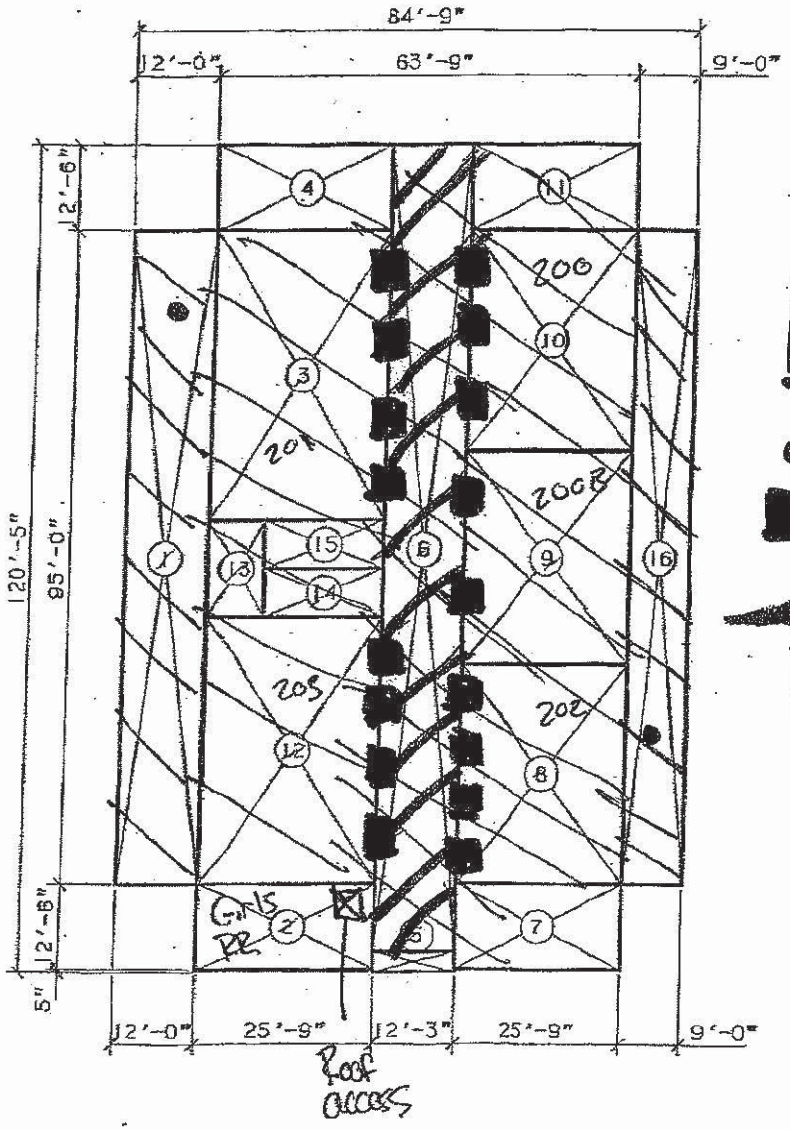
SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850
APPLICATION NO. 221
DRAWING SNR06F2

BUILDING 6
SECOND FLOOR
Home Economics
003BC5




1,438 ☑
= 12x12 Brown/White Floorfile with mastic

● = Vibration Reducers

= Cement Boards

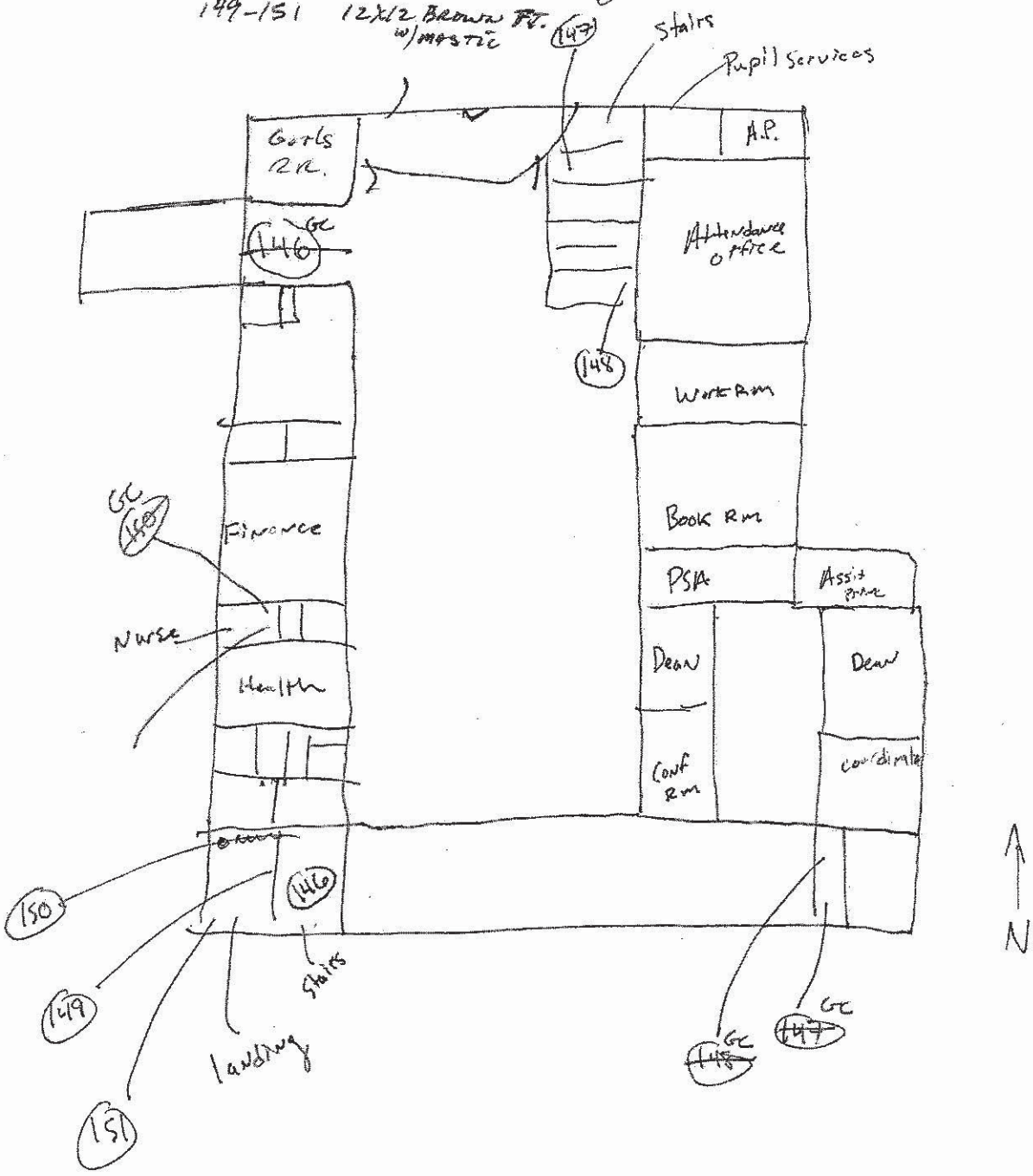
= Pitch Pocket Mastic (Accm) 45 ☑ Approx.

PLOT SCALE: 1"=20'-0"

San Pedro High School #8850
1001 West 15th St. San Pedro, CA 90731
Comprehensive Campus Modernization Project
Administration / Classroom Bldg 004 BDJ First Floor North
Sampled By: Glenn Colquitt
CTS Environmental Inc
2-8-16

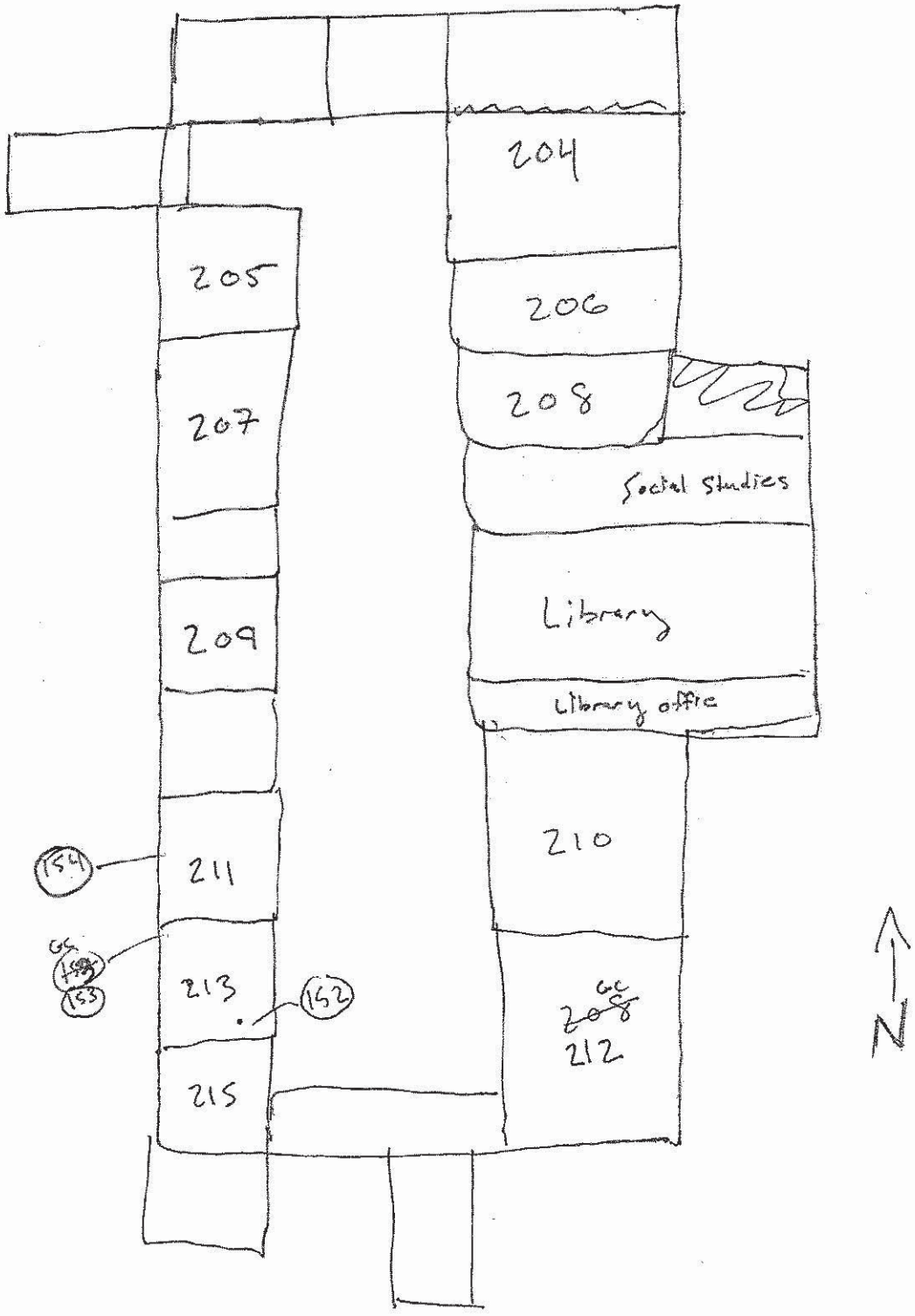
146-148
Black, white stripe Floor Sheeting

149-151 12x12 Brown Ft. w/mastic



San Pedro High School #8850
1001 west 15th St. San Pedro, CA 90731
Comprehensive Campus Modernization Project
Administration / Classroom Building 004 BDJ 2nd Floor
Sampled by: Glenn Colquitt
CVS Environmental, Inc.

# 152-154: 9x9 Red/orange 2-8-1 Ce
F.T. w/mastic



San Pedro High School #8850
1001 west 15th St. San Pedro, CA 90731
Comprehensive Campus Modernization Project
Administration / Classroom Building 604 BDJ First Floor South

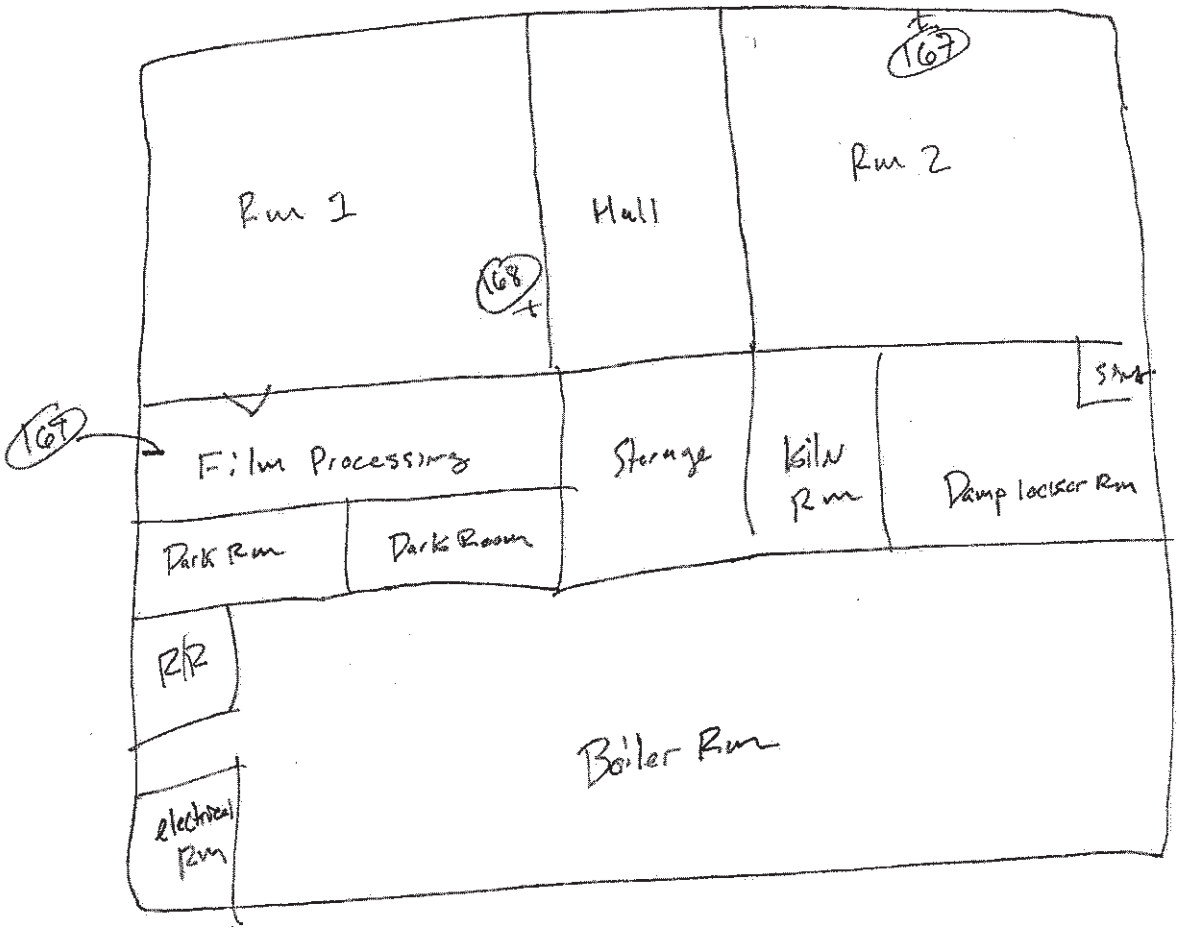
Sampled by:
Glenn Colgan
CAS Environmental, Inc.
2-8-16

116-118: 12x12 white F.T. w/mastic
#143-145 Brown floor, no sheet w/ adhesive
#155-157 12x12 white F.T. w/mastic
#158-160 12x12 cottage TAN F.T. w/MASTIC
#161-163 12x12 Blue F.T. w/MASTIC
#164-166 4" Black cove base
#167-169 4" TAN BASE COVE.



San Pedro High School #8850
1001 west 15th st. San Pedro, CA 90731
Comprehensive Campus Modernization Project
Administrative / Classroom Building 004 BDJ Basement
Sampled by: Glenn Colquitt
CNS Environmental, Inc.
2-8-16

#167 - 169: 4" Tan Cove Base



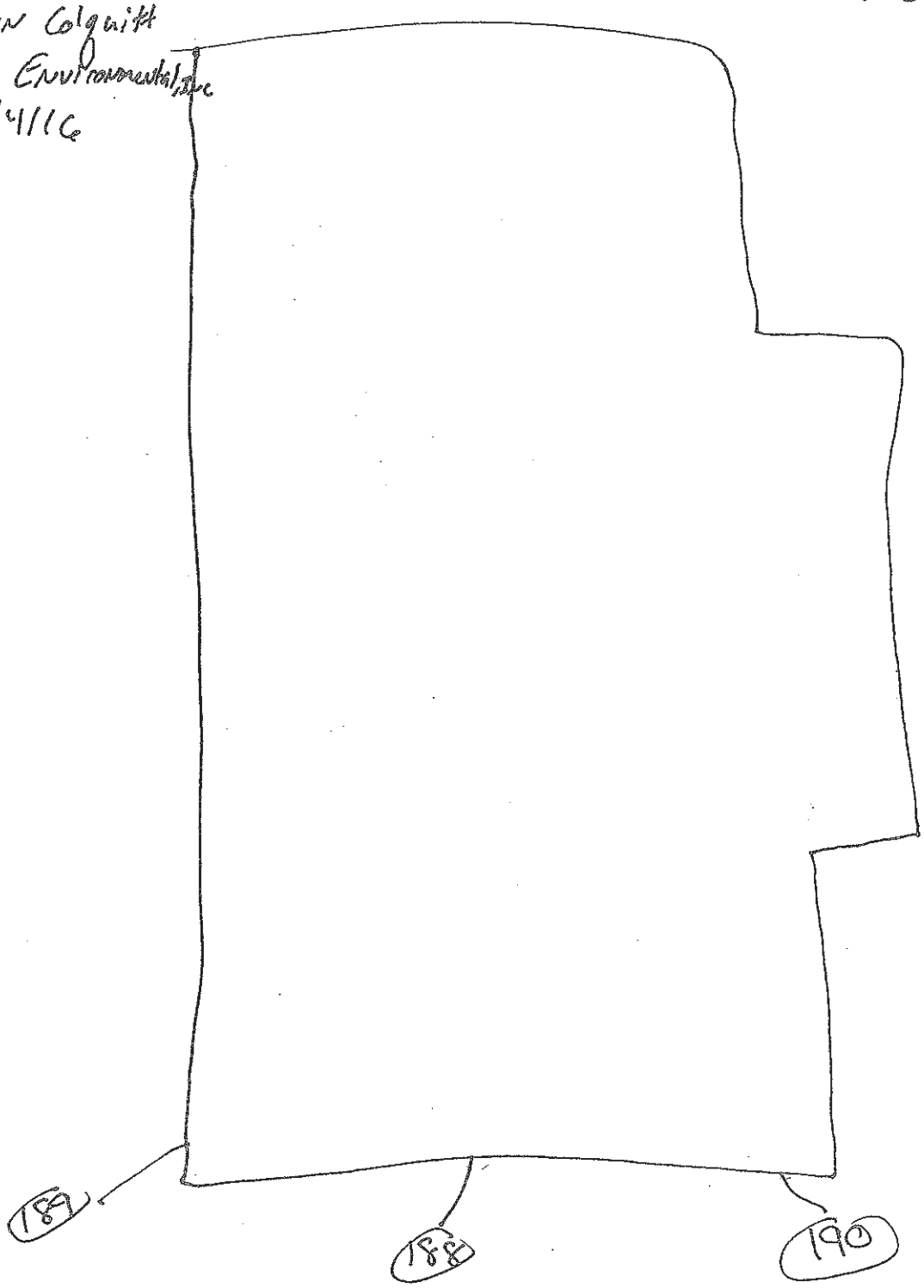

N

San Pedro High School # 8850
1001 W. 15th St. San Pedro, CA 90731
Campus Modernization Project
Classroom / Admin Bldg 04 BDJ

# 188-190 : Exterior Dashcoat over concrete

Work order # 260445 59

Sampler:
Glenn Colquitt
CNS Environmental, Inc
3/4/16



LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850

APPLICATION NO. 22/

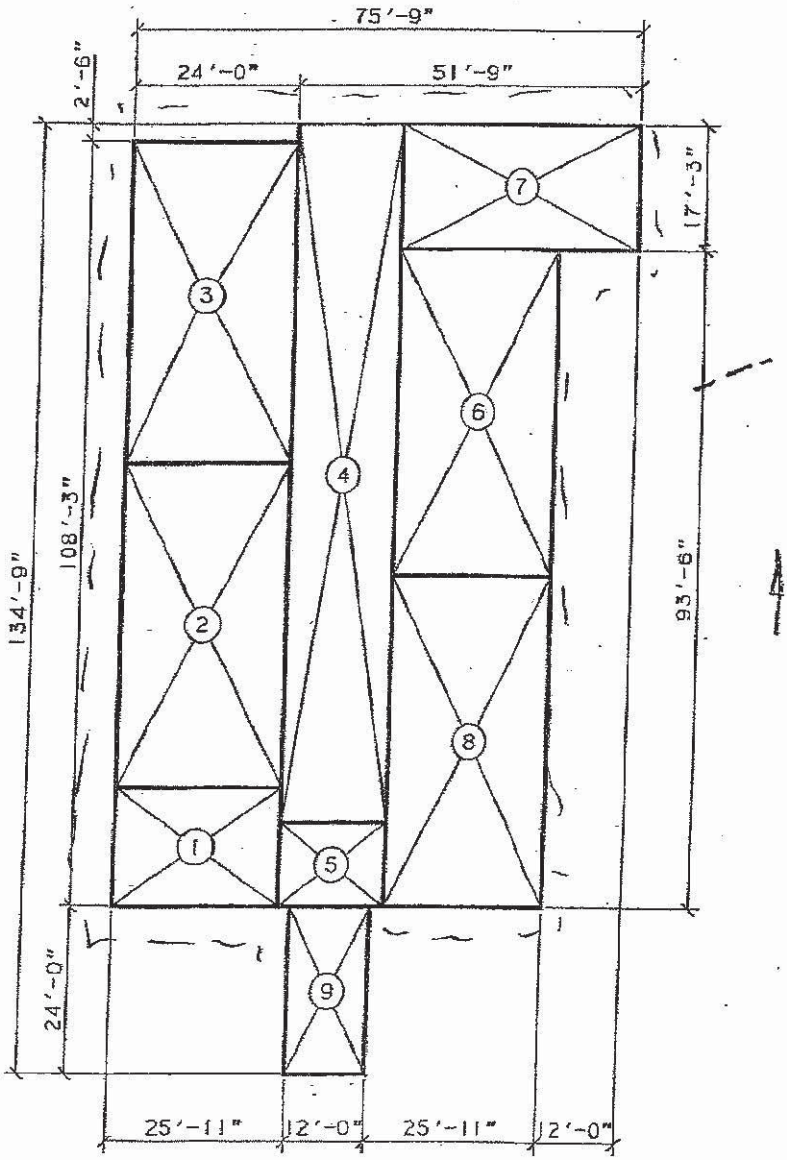
DRAWING SNROIF2S

BUILDING 1

SECOND FLOOR SOUTH

Admin/classroom Bldg
004BDJ

Inspector: Glenn Colquitt CUS Environmental 3/4/16




--- = Dashcoat + stucco

PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT

DATE: 06/16/91

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850

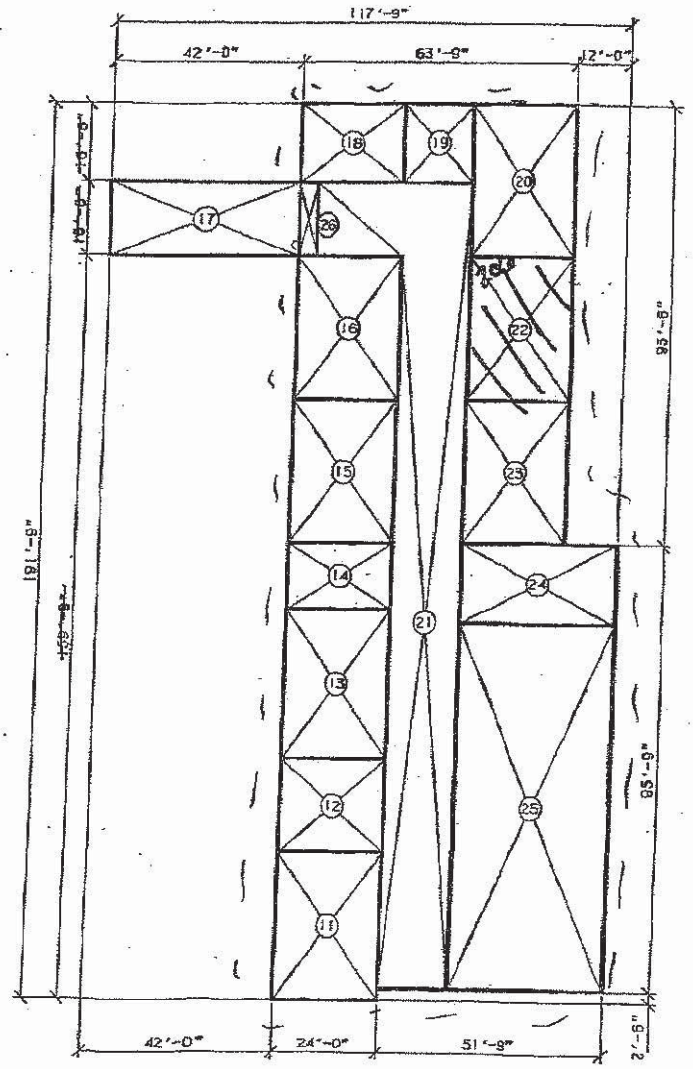
APPLICATION NO. 22/

DRAWING SNROIF2N

BUILDING 1

SECOND FLOOR NORTH

Admin/Classroom Bldg
004BDJ
Inspector: Glenn Colg with
CUS Environmental
3/4/11




= Sand Plaster Ceiling
744 SF

= Dashcoat + Stucco

PLOT SCALE: 1"=30'-0"

AUTHORIZED AGENT

DATE: 06/16/91

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850

APPLICATION NO. 22/

DRAWING SNROIFIS

BUILDING 1

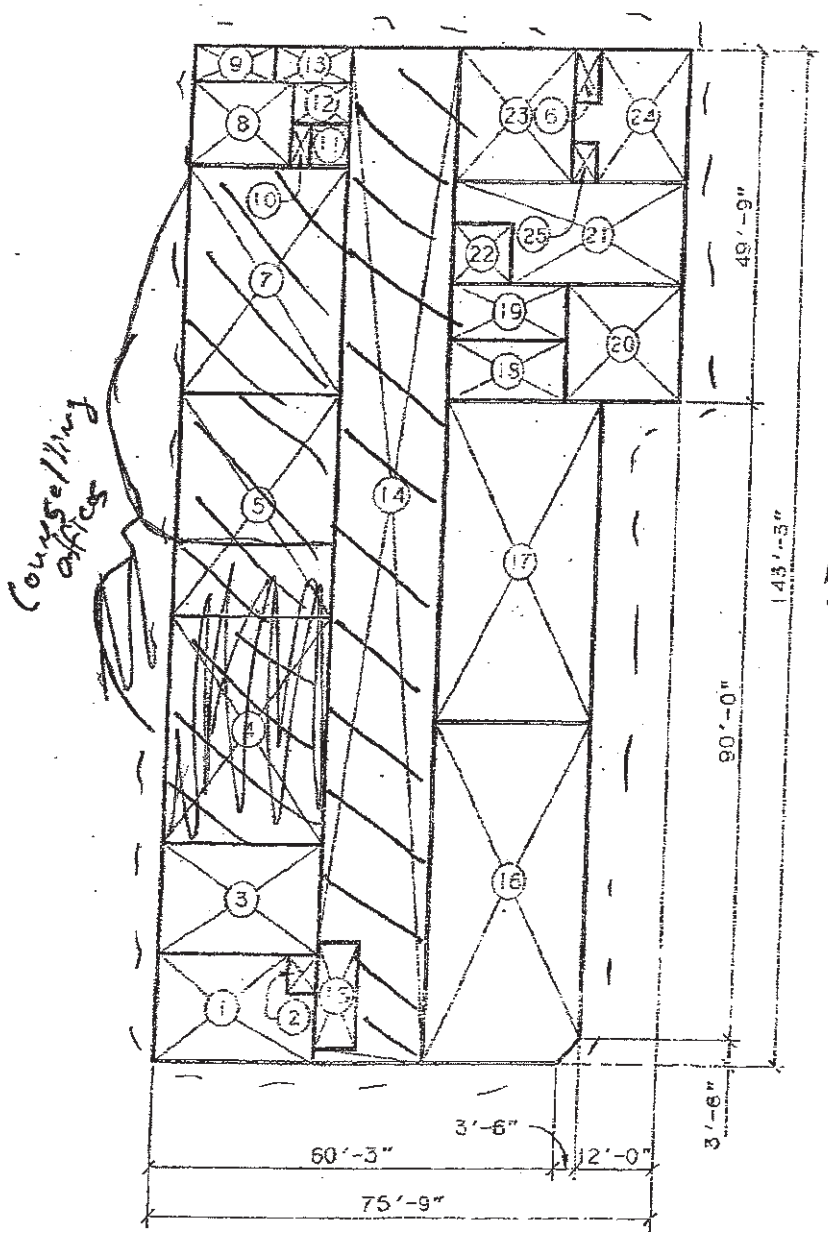
FIRST FLOOR SOUTH

Admin / classroom Bldg
004 BDJ
Inspector: Glenn Colquitt
CNS Environmental, En

= Sand Plaster ceiling
~~1,400~~ 3,500 ☐

= Dashcoat ☐ Stucco

Counseling offices




Inspector: Glenn
Colquitt
CNS Environmental
3/18/16

PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT

DATE: 06/16/91

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

APPL

DRAW

SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

FIRST FL

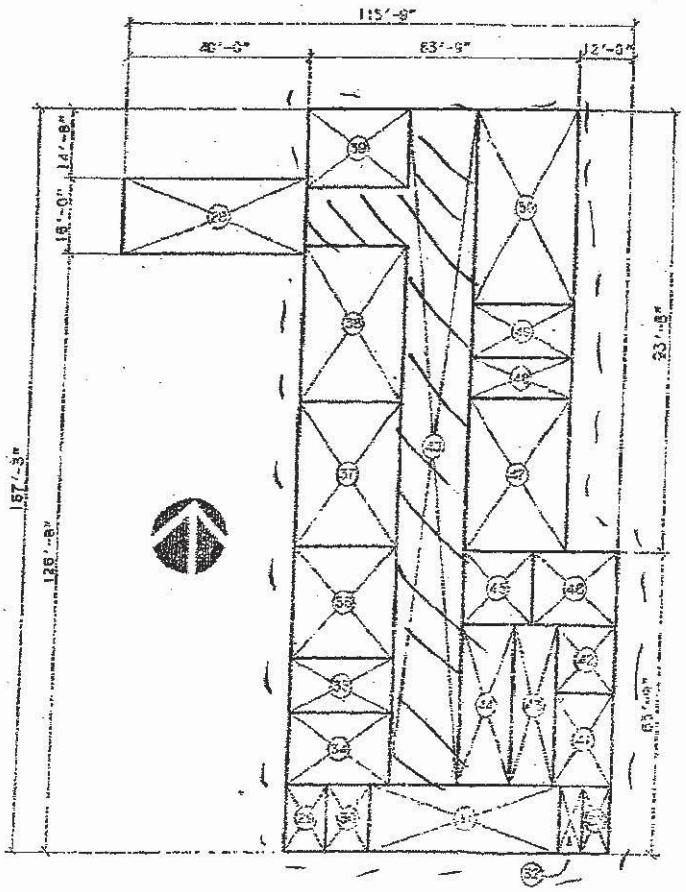
Admin Bldg

~~004 BDJ~~

004 BDJ

: Sand Plaster ceiling

2,542 ☐'




= Dashcoat

~~Stucco~~

80,000 ☐' : Stucco

Inspector: Steve Colgrift

CMS Environmental, Inc

3/4/16

PLOT SCALE: 1"=30'-0"

AUTHORIZED AGENT

DATE: 06/16/91

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

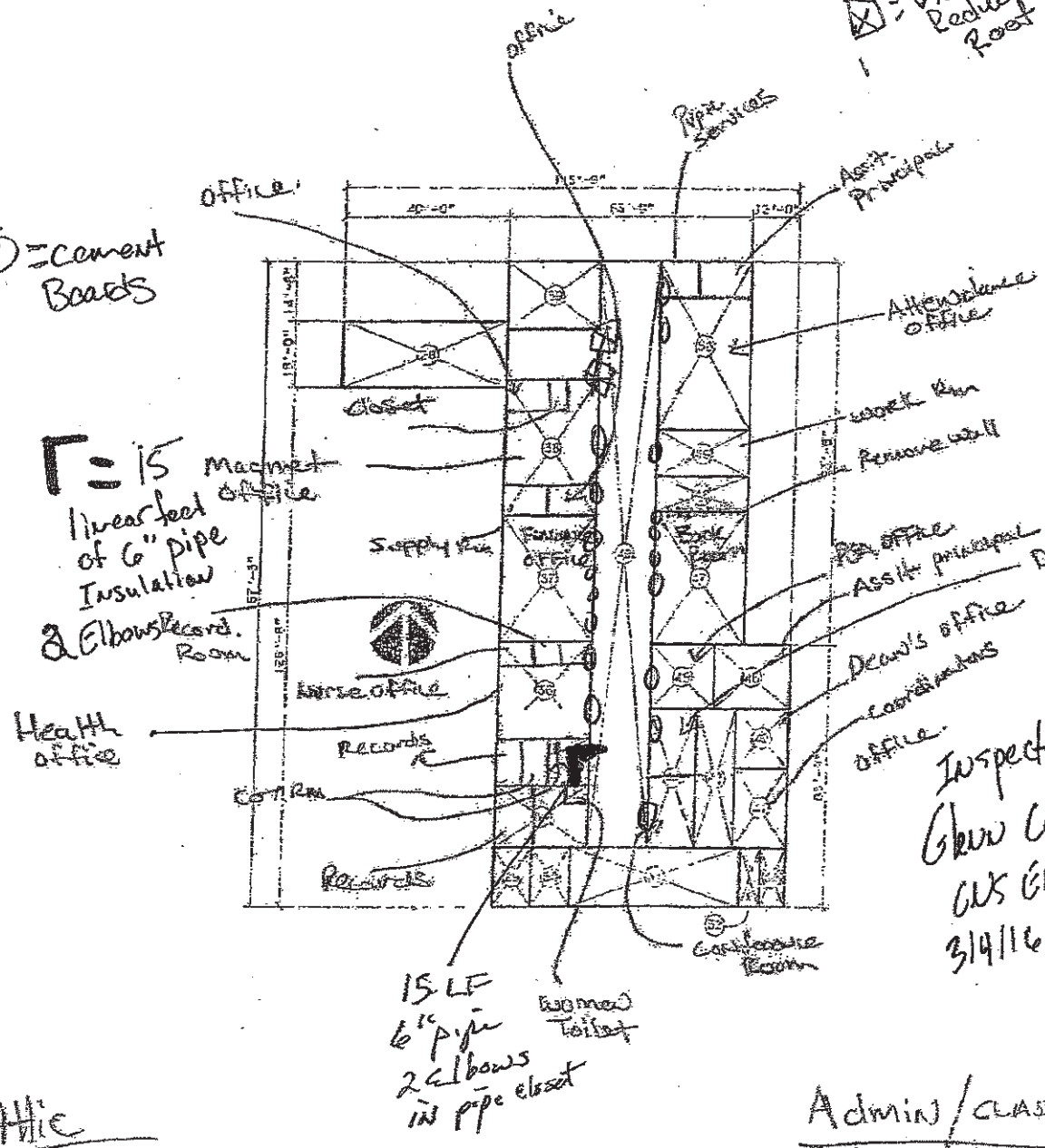
LOCATION 3850

APPLICATION NO. 221

DRAWING SHEET 1 IN

BUILDING 1
FIRST FLOOR NORTH
004BDJ

☒ = Vibration Reducer Roof




Ⓒ = cement Boards

Γ = 15 linear feet of 6" pipe Insulation & Elbows Record. Room

Health office

15 LF 6" pipe 2 elbows in pipe closet

Inspector:
Glen Colquitt
CLS Environmental Inc
3/14/16

Attic / crawl

Admin / classroom
004BDJ

PLOT SCALE: 1"=30'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 06/16/91

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

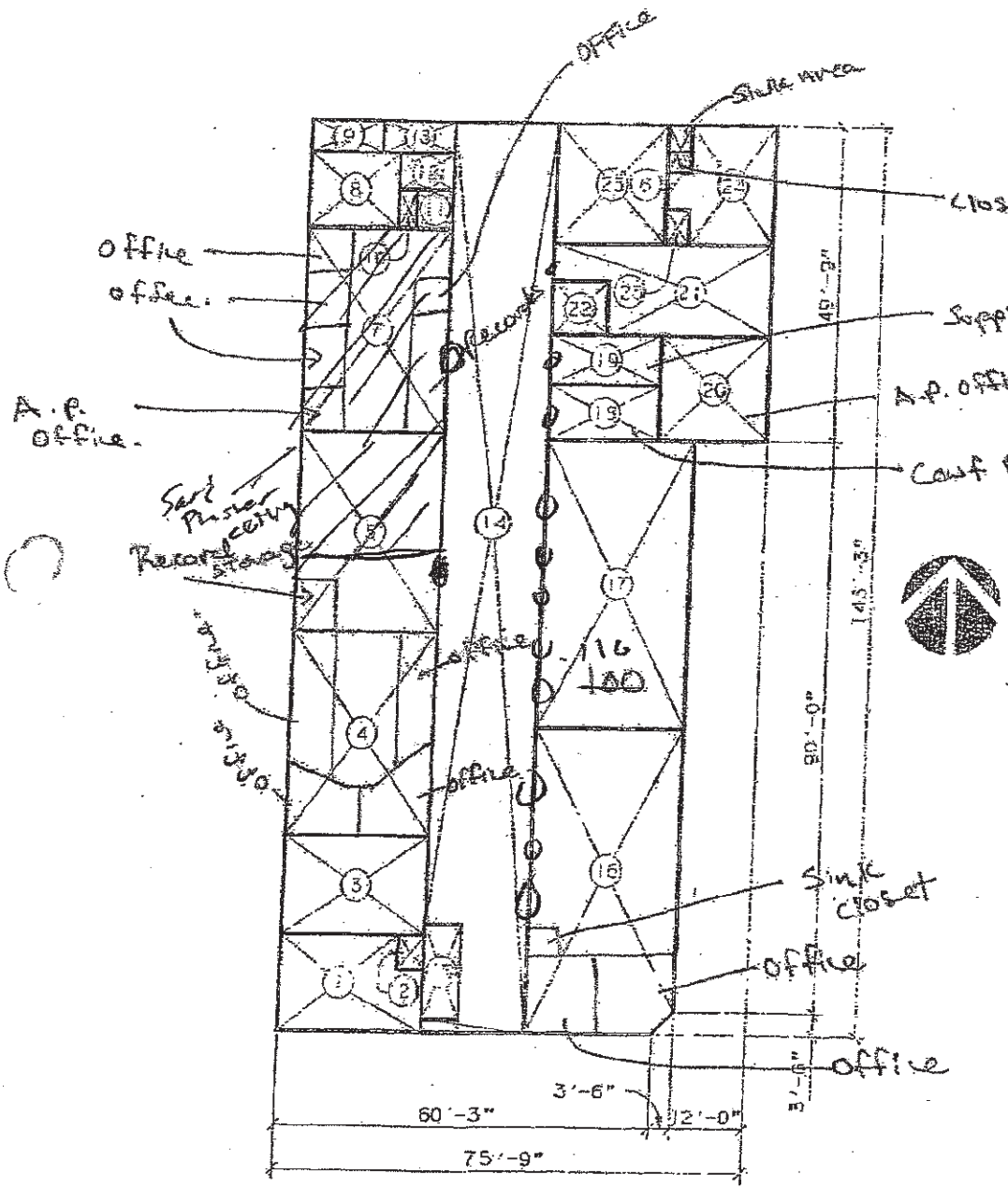
SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850
APPLICATION NO. 22(
DRAWING SHEET #5

BUILDING 1
FIRST FLOOR SOUTH
004BDJ




O = cement Boards

Inspector:
Glenn Colquitt
CLS Environmental
3/4/16

PLOT SCALE: 1"=30'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 05/16/91
SHEET 7 OF 113 SHTS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

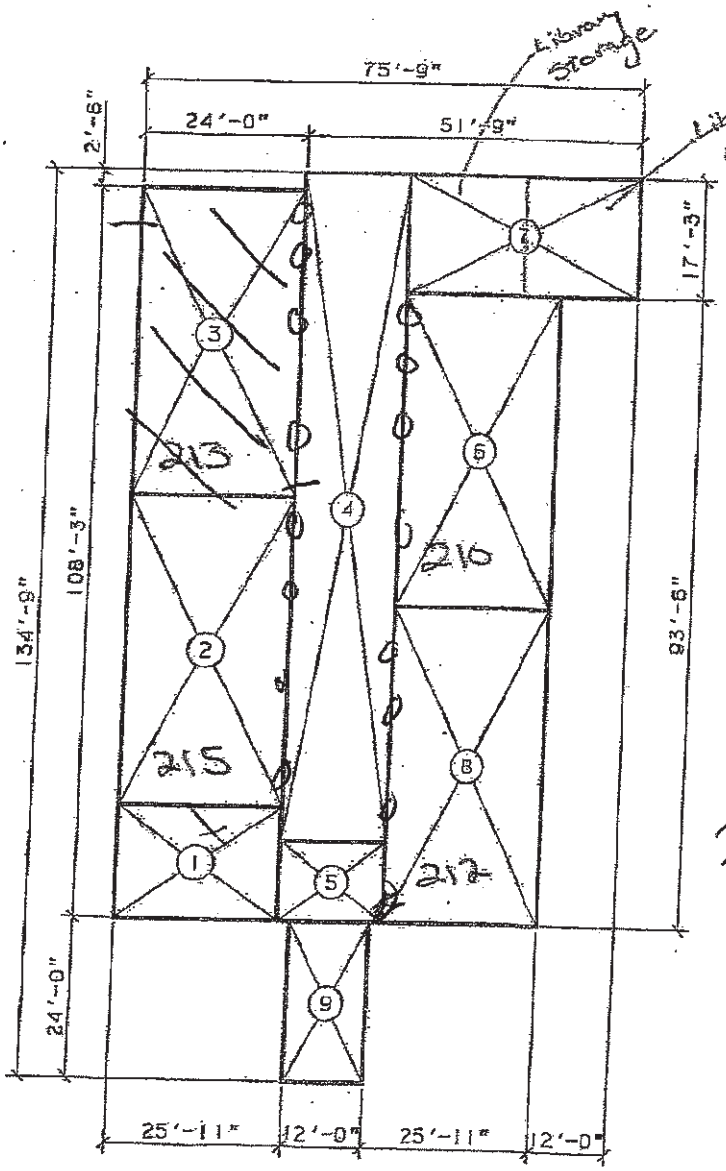
SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850
APPLICATION NO. 221
DRAWING SNROIF25

BUILDING 1
SECOND FLOOR SOUTH
00413DJ




X = Vibration Readings Four Rm

O = cement Boards

▨ = 9x9 Red FT w/ Mastic 1,086 ☑

Inspector: Glenn Colquitt LAUS Environmental 3/4/16

PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 06/16/91

San Pedro High School #8850
1001 west 15th St. San Pedro, CA 90731
Comprehensive Campus Modernization Project
Classroom Building #1 005 BCJ
1st Floor
Sampled By: CNS Environmental, Inc.
Glenn Colquitt
2/8/16

Sample #5:
110-112: 9x9 Brown FT w/ mastic



LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

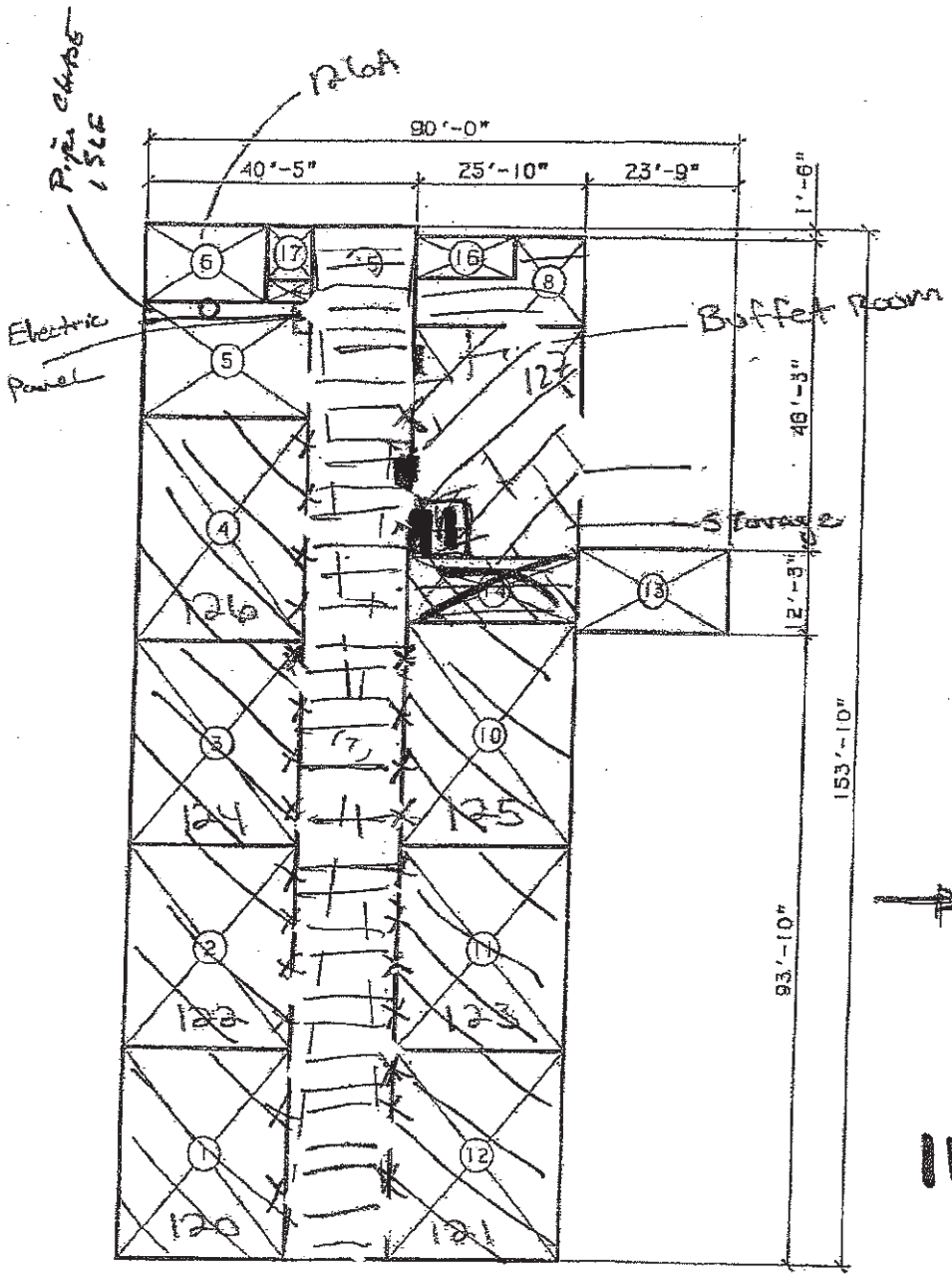
SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850
APPLICATION NO. 22/
DRAWING SNRO3F1

BUILDING 3
FIRST FLOOR
005BCJ




= 12x12" Beige TAN FT w/mastic X = cement Boards over Doors 904 FT

= 12x12" Beige Floor Tile w/mastic 893 FT

= Brown 2" wide Mixed FT with Mastic 2700 FT

= 9x9 Dark Brown floor tile w/ mastic 80 FT

ATTIC CRAWL

CLASSROOM #1

005BCJ

PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 06/16/91
SHEET 17 OF 113 SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

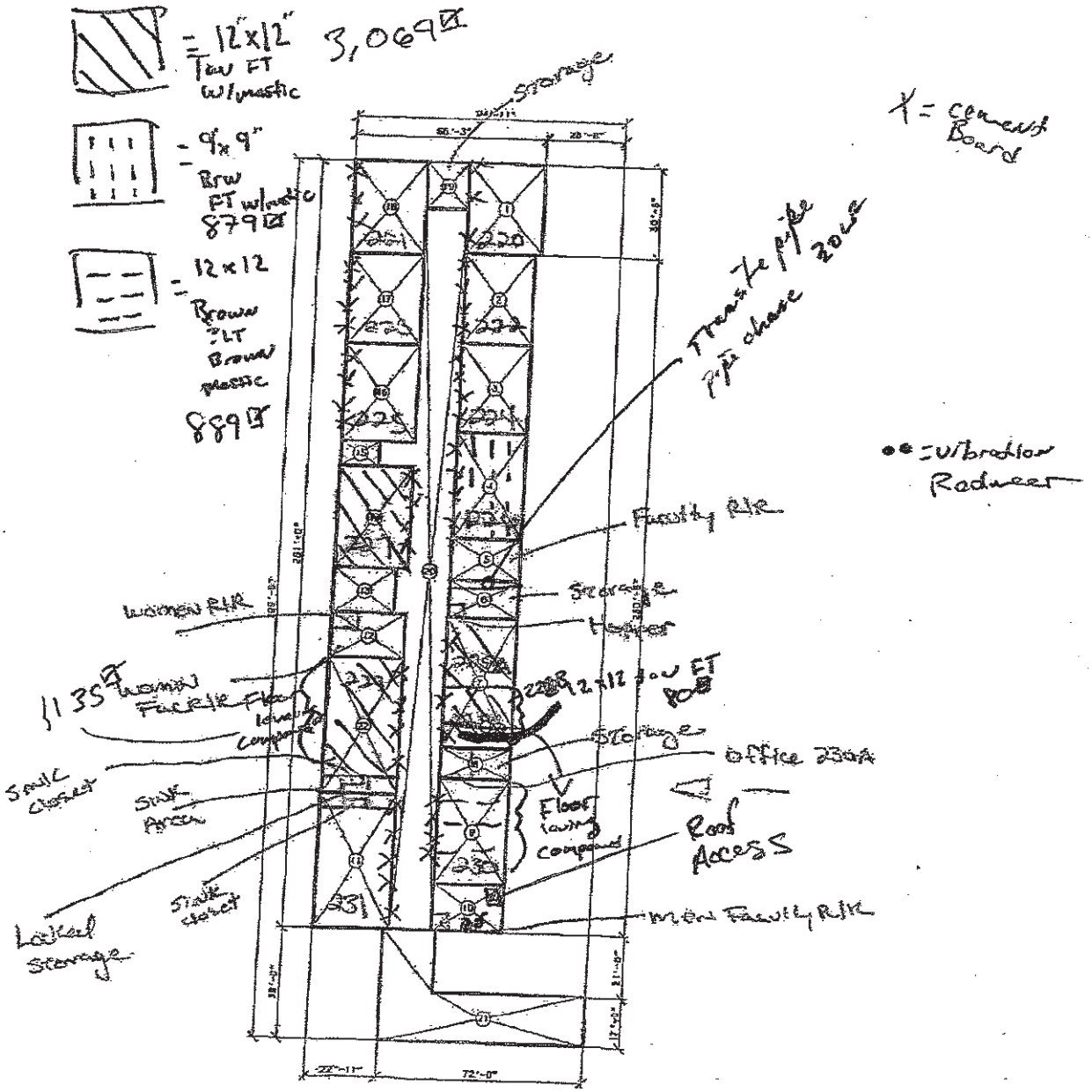
SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850
APPLICATION NO. 22/
DRAWING SNR03F2

BUILDING 3
SECOND FLOOR
0053CT

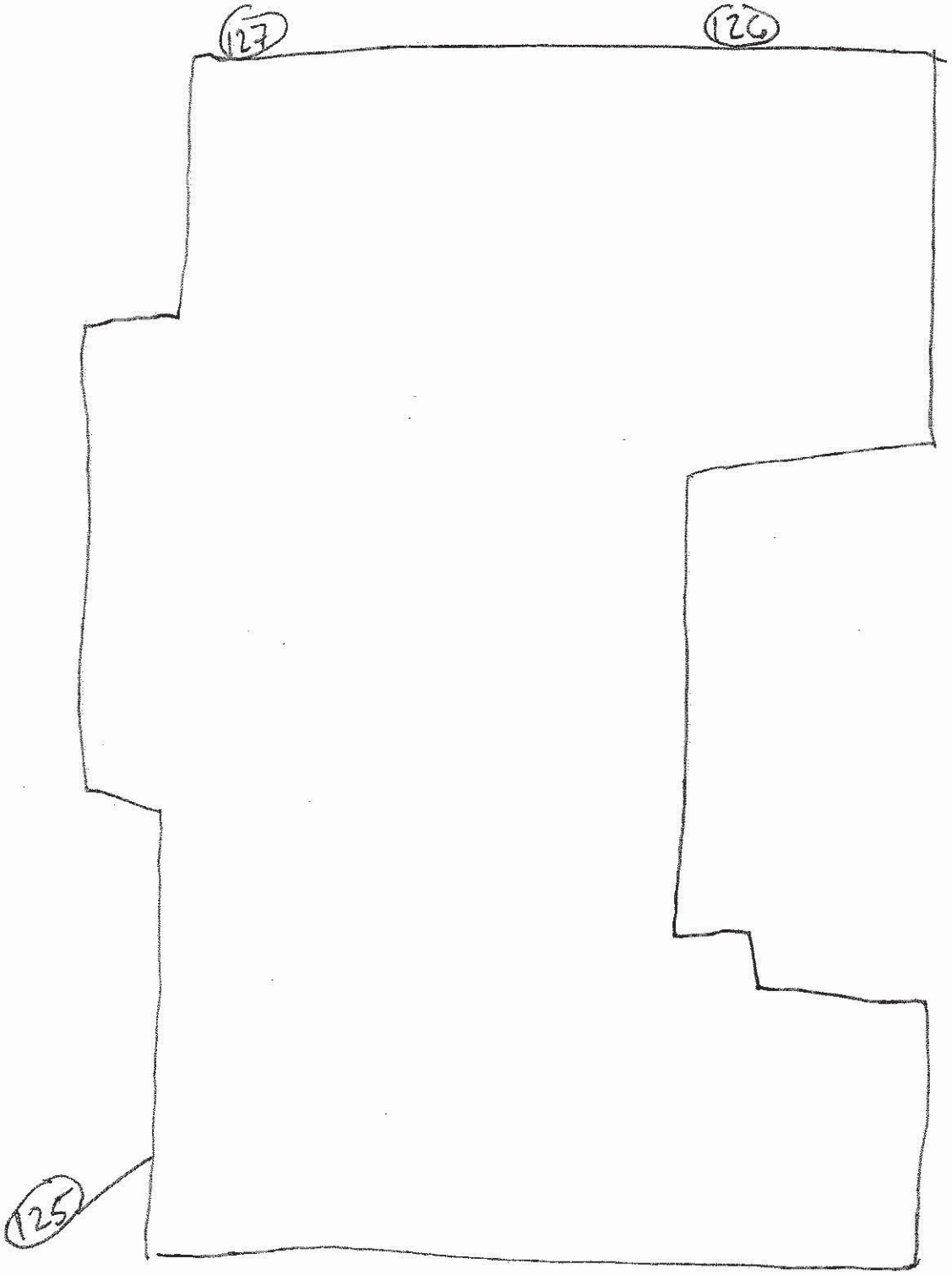



PLOT SCALE: 1"=40'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 06/16/91

San Pedro High School #8850
1001 west 15th st. San Pedro, CA 90731
Comprehensive Campus Modernization Project
P.E. Building 006 CBJ
Sampled by: Glenn Colquitt
CNS Environmental, Inc.
2-8-16
#125-127: Exterior window Putty



LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850

APPLICATION NO. 221

DRAWING SNR02F1

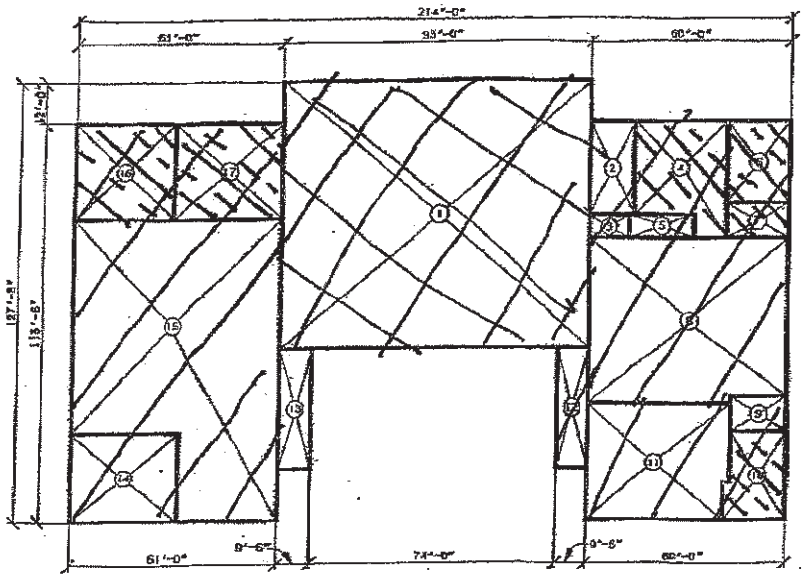
BUILDING 2

FIRST FLOOR

PE Bldg
0006 BCJ

Campus Modernization Project

Inspector:
Glenn Colquitt
CNS Environmental, Inc.
2/8/16



= Acoustical Plaster Ceiling 3,000 ☑

= Roof Penetration Mastic Accm Approx 230 ☑

= Black Felt Flooring under wood Floor

7,231 ☑

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850

APPLICATION NO. 22/

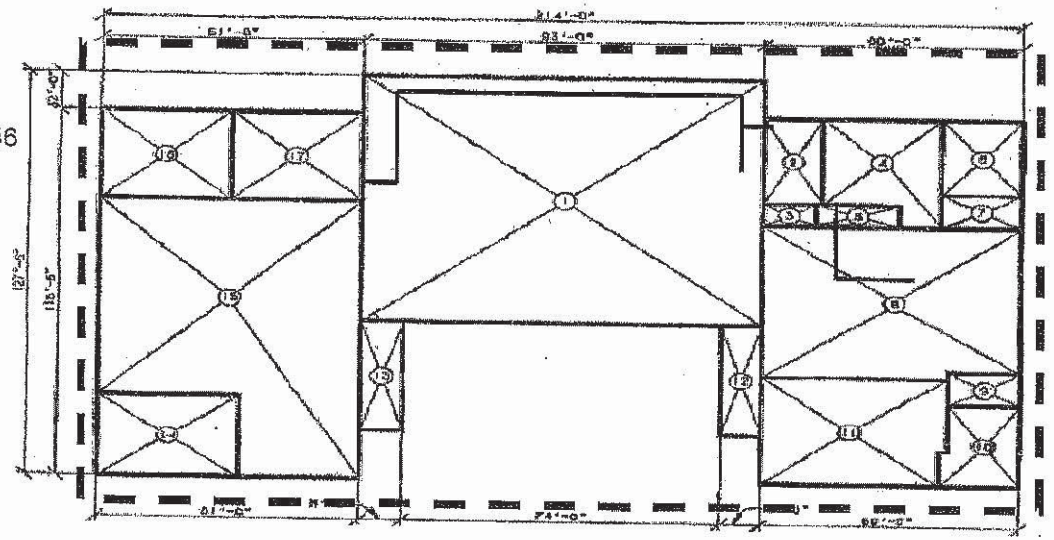
DRAWING SNR02F1

BUILDING 2
FIRST FLOOR

PE Bldg
00 C6 BC J

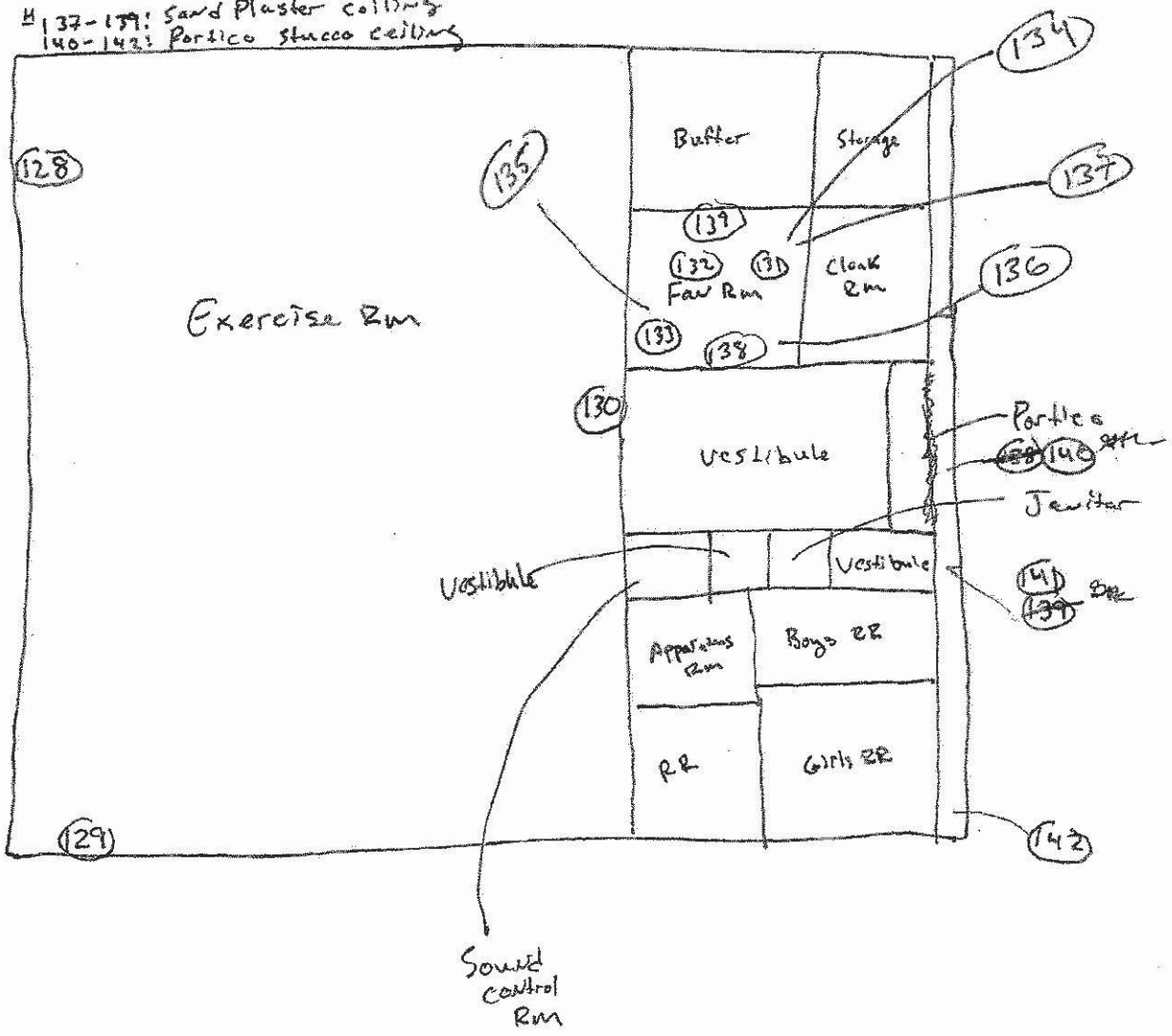
= Window Putty Approx. 146 Windows

= Approx. 32 linear feet of TSI Piping & Approx 7 elbows



San Pedro High School #8850
1001 west 15th St. San Pedro, CA 90731
Comprehensive Campus Modernization Project
Girls' Gymnasium 010 DAP
Sampled by: Glenn Colquitt
CMS Environmental, Inc.
2-8-16

#128-130: 12x12 Random Wall Tiles w/ mastic
#131-133: Duct seam sealant tape
#134-136: Sand Plaster wall
#137-139: Sand Plaster ceiling
#140-142: Portico stucco ceiling




N

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

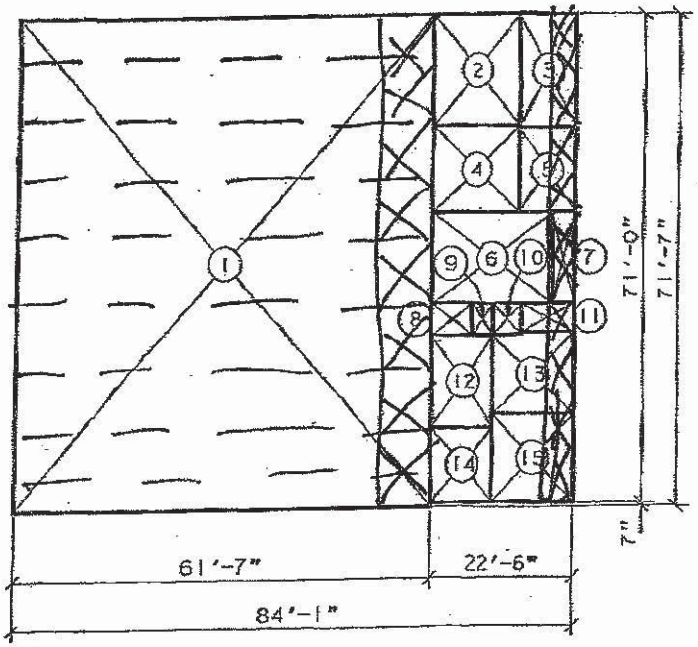
DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850
APPLICATION NO. 221
DRAWING SNRO7F1

BUILDING 7

Girl's Gym
016DAT

Campus Modernization Project
Inspector: Glenn Colquitt
CNS. Environmental, Inc.
2/8/16




XX = Exterior Stucco Approx 1,400 SF

= Felt between wood basketball Court Flooring Approx. 4,300 SF

PLOT SCALE: 1"=20'-0"

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: SAN PEDRO HIGH SCHOOL

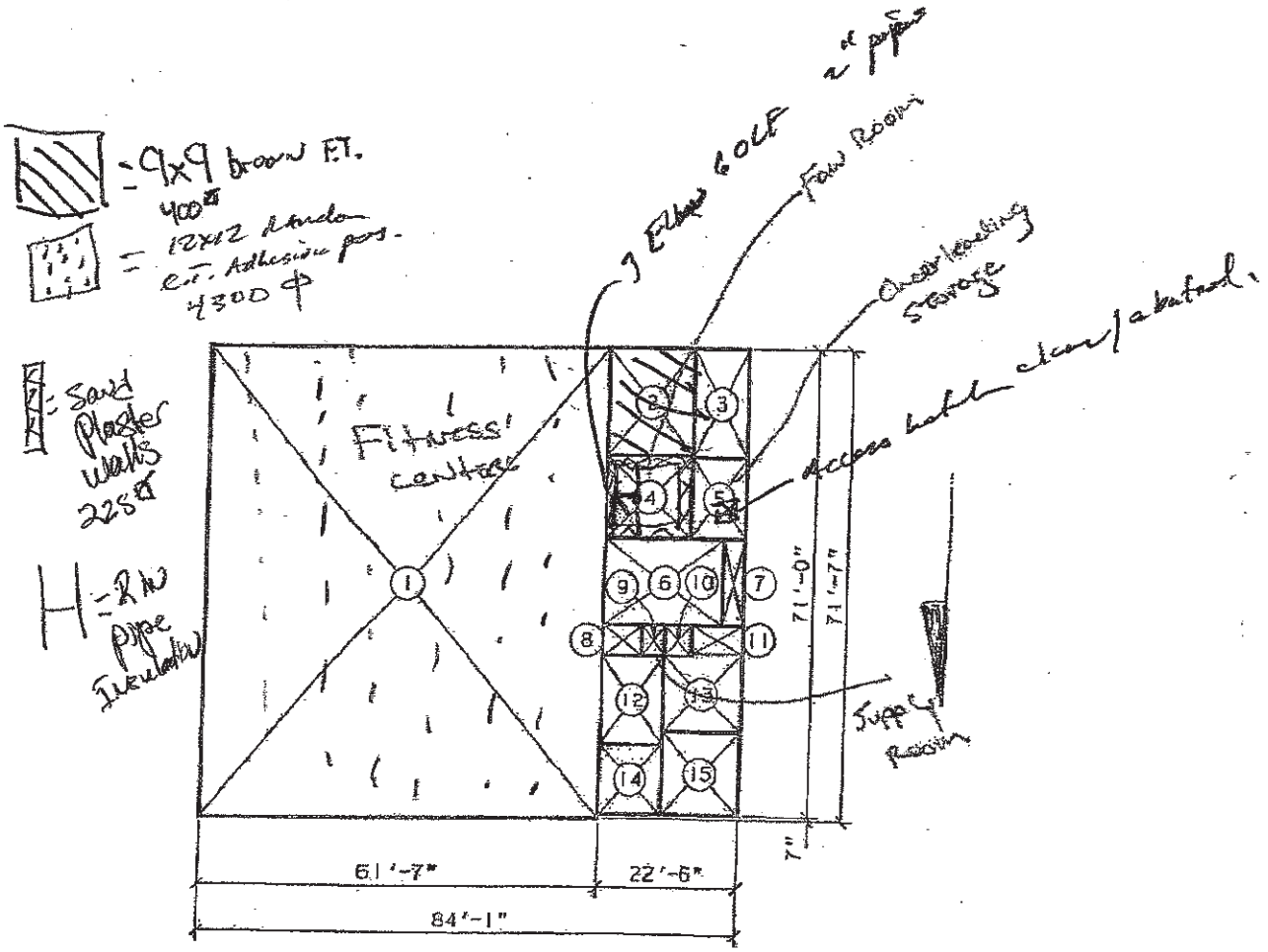
ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850
APPLICATION NO. 22/
DRAWING SNR07F1

BUILDING 7

010 DAP




Attic
No crawl

Girls 64m

010 DAP.

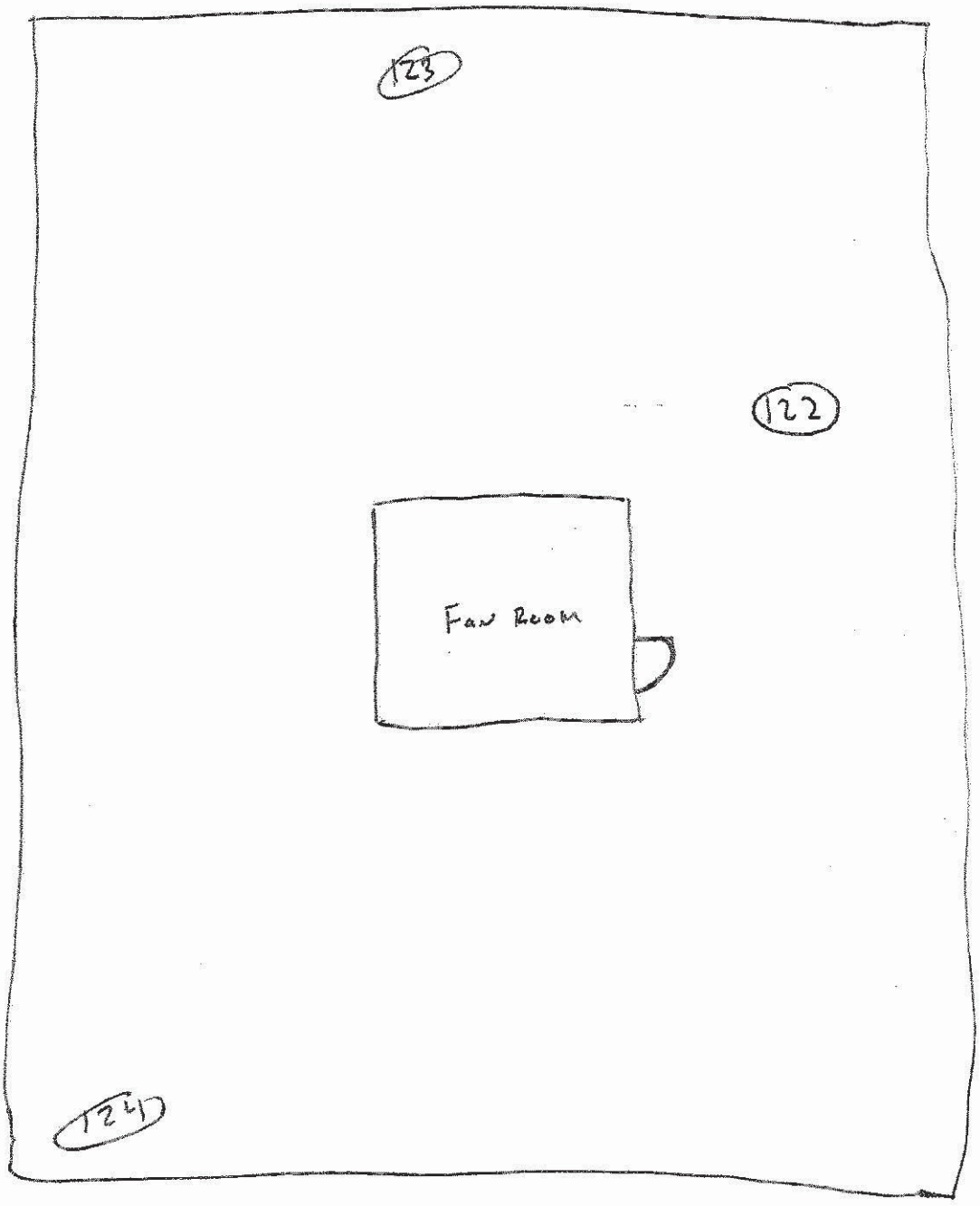
PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

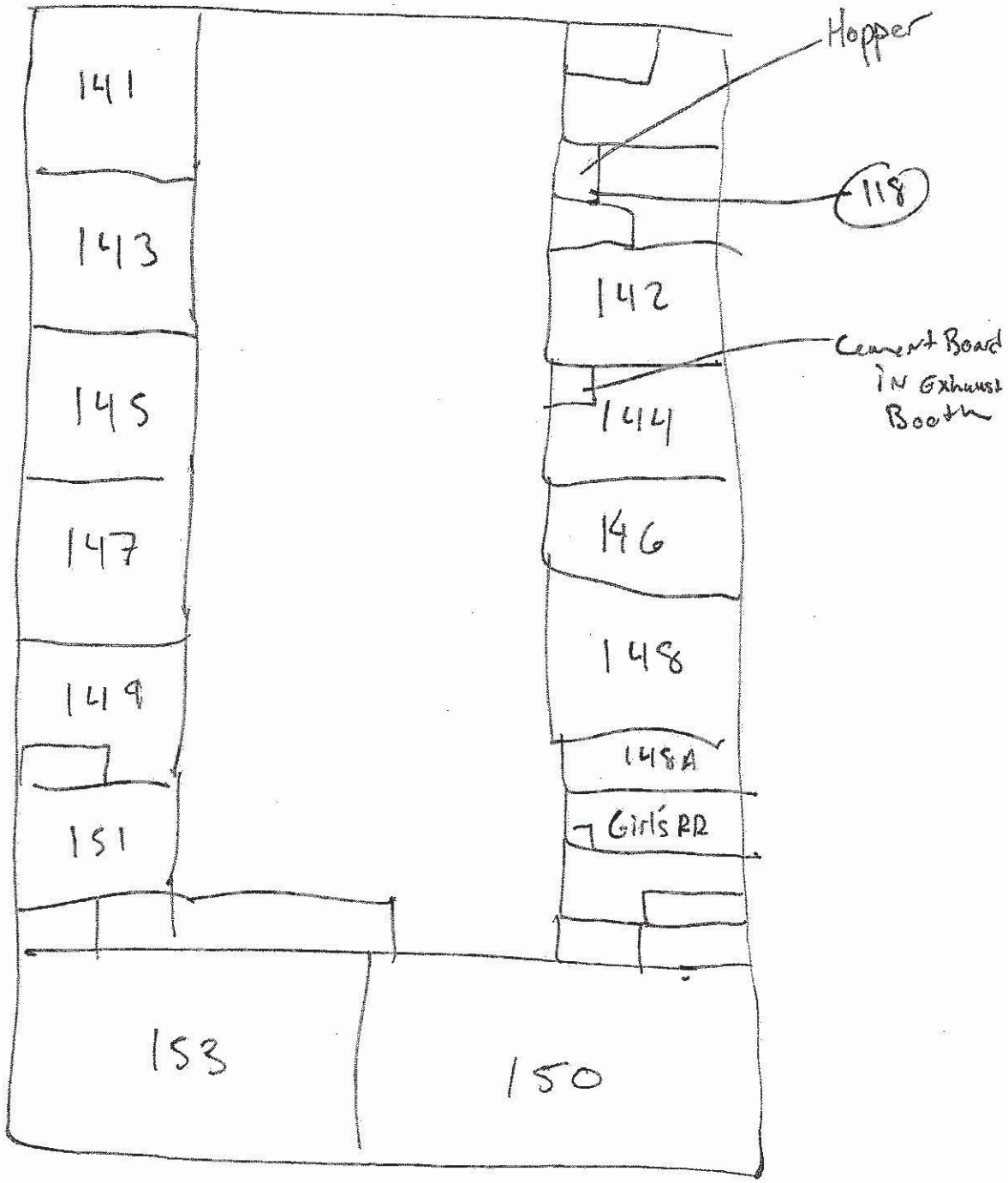
DATE: 06/16/91
SHEET 33 OF [illegible]

San Pedro High School #8850
1001 West 15th Street, San Pedro, CA 90731
Comprehensive Campus Modernization Project
Classroom Building #2 ~~005~~ 013BCJ Roof
Sampled By: Glenn Colquitt
CNS Environmental, Inc.
2-8-16

122-124: Pitch Pocket mastic

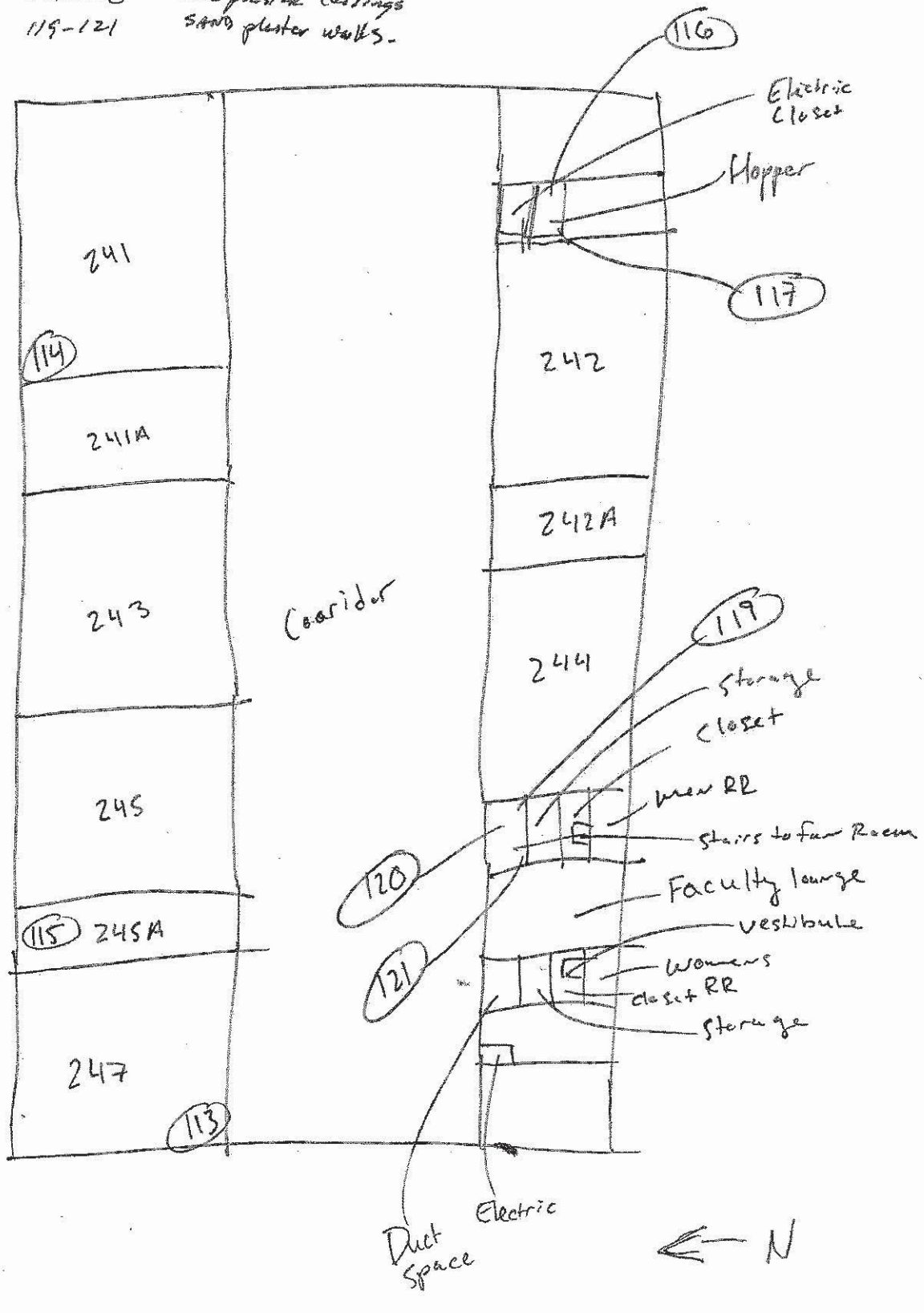


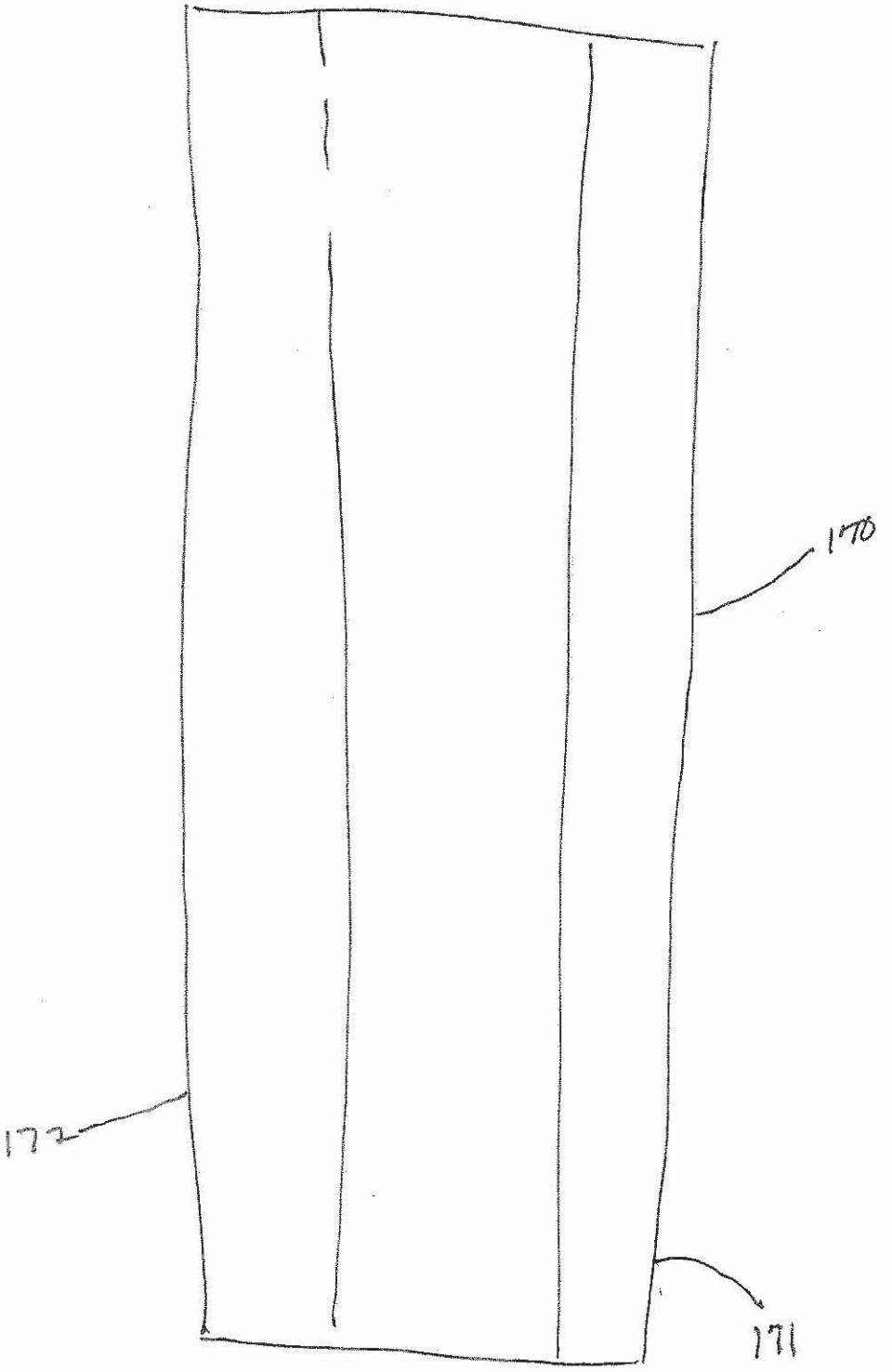
San Pedro High School #8850
1001 west 15th St. San Pedro, CA 90731
Comprehensive Campus Modernization Project
Classroom Building #2 First Floor 013BCJ
Sampled by: Glenn Colquitt
CNS Environmental, Inc.
2-8-16



San Pedro High School #8850
1001 west 15th St. San Pedro, CA 90731
Comprehensive Campus Modernization Project
Classroom Building #2 013BCP · 2nd Floor East
Sampled by: Glenn Colquitt
CNS Environmental, Inc.
2-8-16

Sample # 113-115 9x9 tan V.F. w/mastic
116-118 Skim plaster ceilings
119-121 Sand plaster walls.






San Pedro H.S. 8850
1001 W. 15th St.
San Pedro CA. 90731
Campus Modernization
Classroom BLD #2 013 BCP
EXTERIOR STUCCO
Samples 170-172
Sampled By CWS ENV.
Glenn Colquitt
date 3-6-16

N →

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

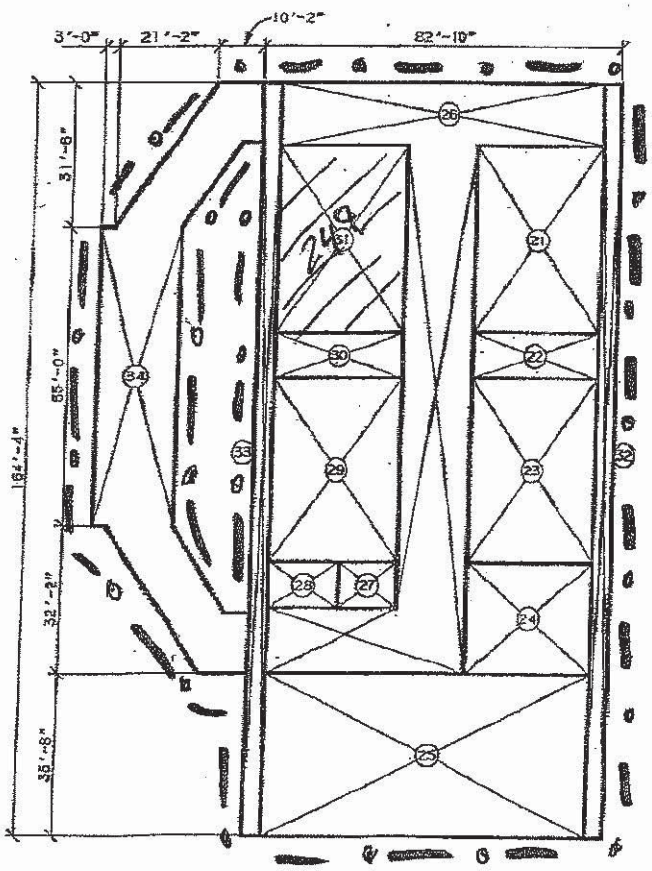
DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850

APPLICATION NO. 22/
DRAWING SNRO8F2W

BUILDING 8
SECOND FLOOR WEST

Classroom
Bldg 2
013BCP




= 9x9 Lt. Brown FT with mastic
1,190 ☐

Pathway
= ~~25,000~~ ☐
5,000 ☐

= Stucco walls
10,000 ☐

PLOT SCALE: 1"=30'-0"

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: SAN PEDRO HIGH SCHOOL

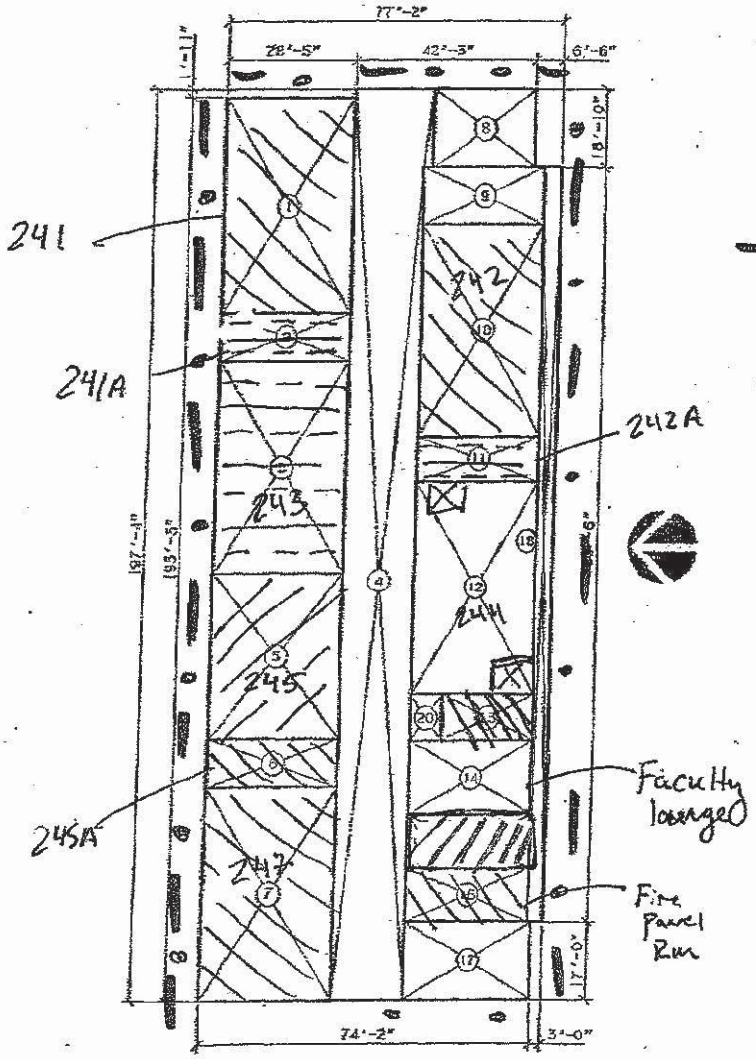
ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850
APPLICATION NO. 22/
DRAWING SNR08F2E

BUILDING 8
SECOND FLOOR EAST

Classroom Bldg 2
013 BCP




= Desh coad over concrete ~~86,000~~ ~~54,000~~ 46,000

= 9x9 Tan FT w/ mastic 20,000 4568

= 9"x9" light Brown FT w/ mastic 1,560

= 9'x9" grey FT w/ mastic 1,887

= Cement Boards in exhaust Booths

• Stucco walls 12,000

PLOT SCALE: 1"=30'-0"

AUTHORIZED AGENT

DATE: 06/16/91

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

LOCATION 8850
APPLICATION NO. 22/
DRAWING SNR08F1

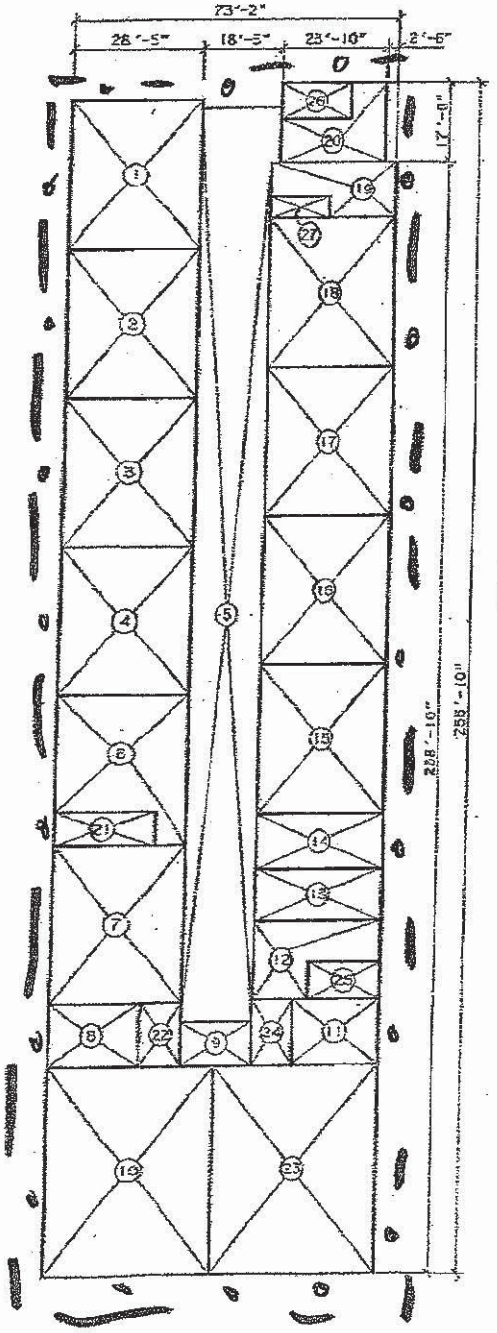
SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

BUILDING 8
FIRST FLOOR

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

Classroom Bldg 2
013 BCP




- - = Dashcoat over concrete
~~65,000~~ ☑
~~65,000~~ ☑
29,000 ☑

0 = Stucco walls
24,000 ☑

PLOT SCALE: 1"=30'-0"

DATE: 06/16/91

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: SAN PEDRO HIGH SCHOOL

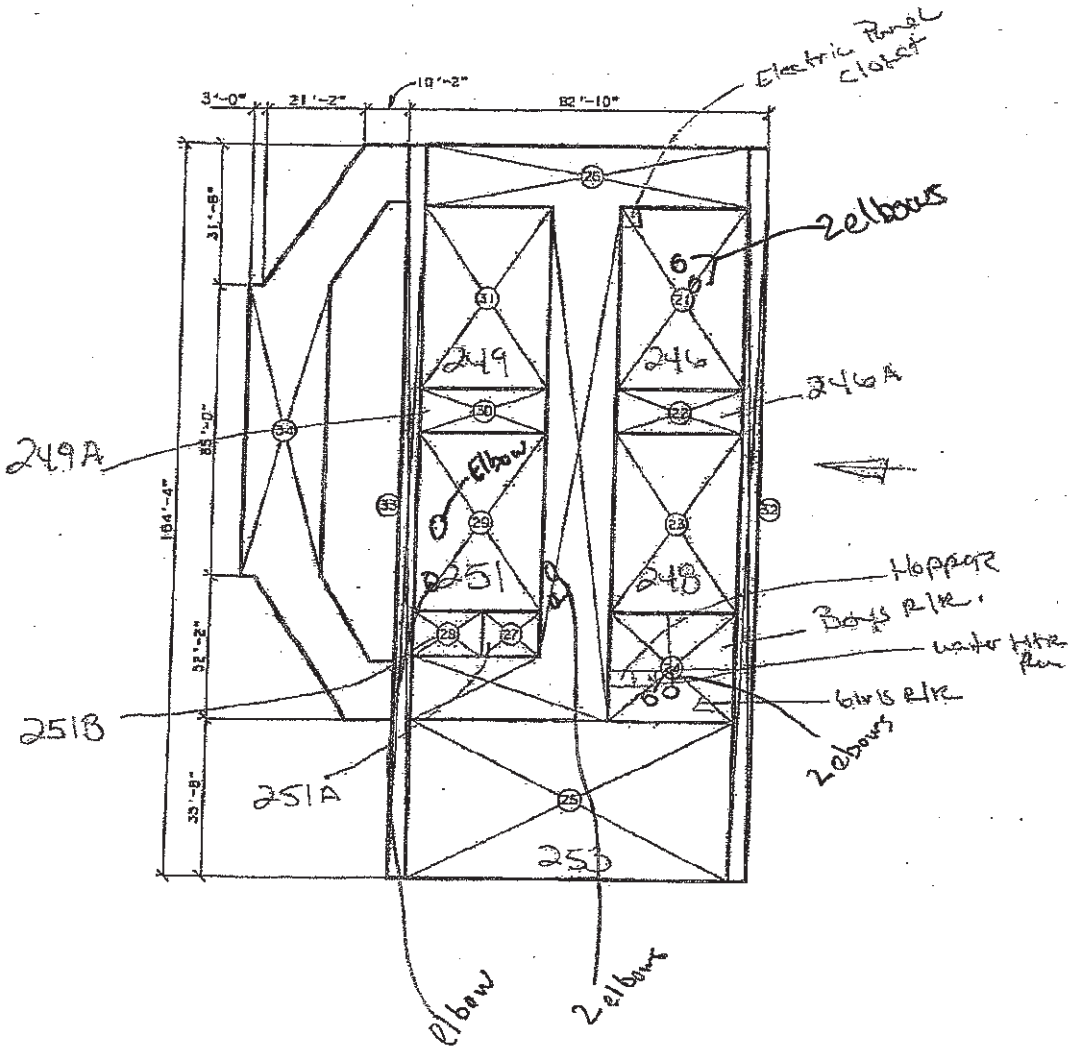
ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850
APPLICATION NO. 22/
DRAWING SNR08F2W

BUILDING 8
SECOND FLOOR WEST

013BCP




PLOT SCALE: 1"=30'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 06/16/91

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: SAN PEDRO HIGH SCHOOL

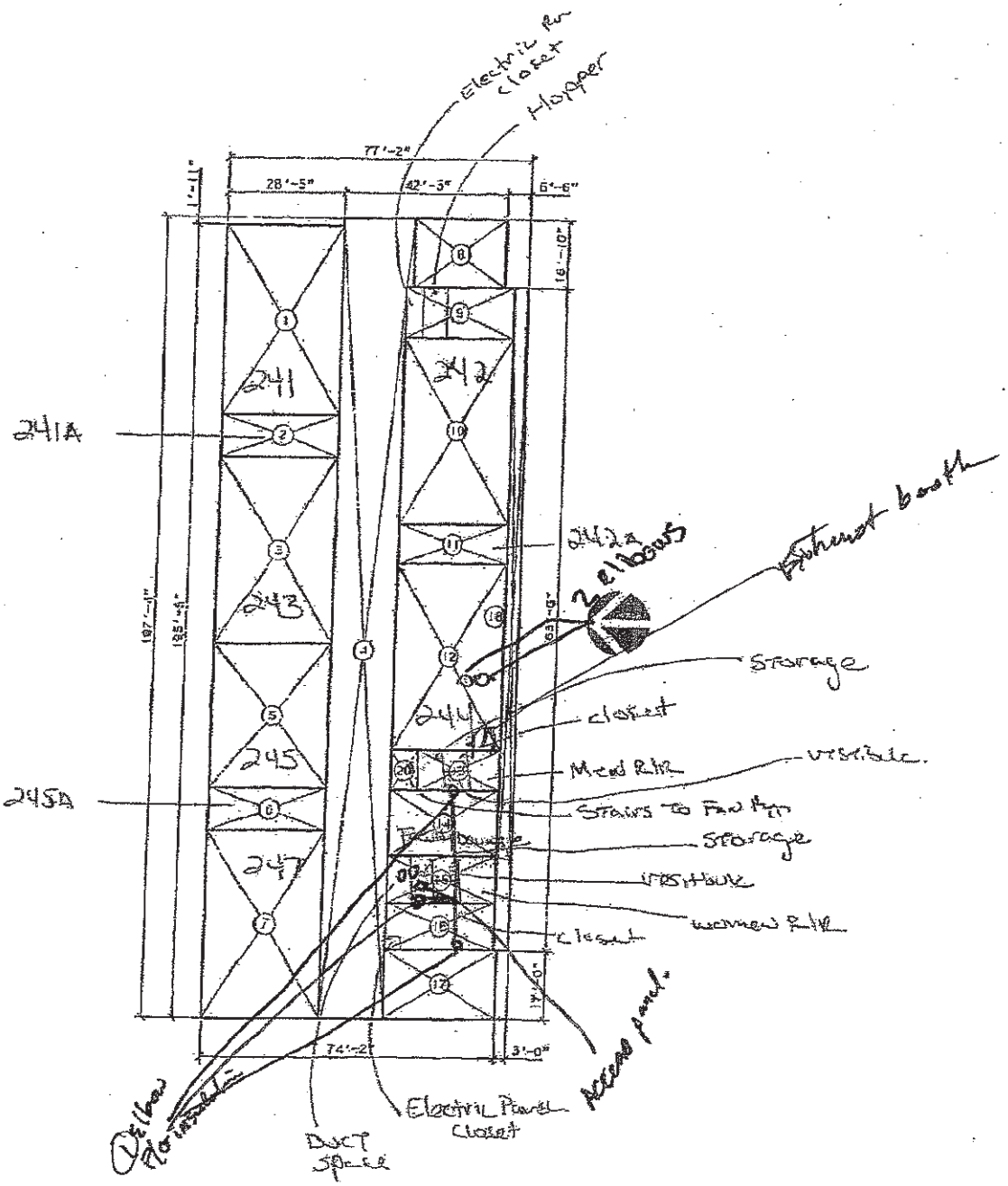
ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850
APPLICATION NO. 22/
DRAWING SNR08F2E

BUILDING 8
SECOND FLOOR EAST

013BCP




PLOT SCALE: 1"=30'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 06/16/91
SHEET 37 OF 113SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

LOCATION 8850
APPLICATION NO. 22/
DRAWING SNR08F1

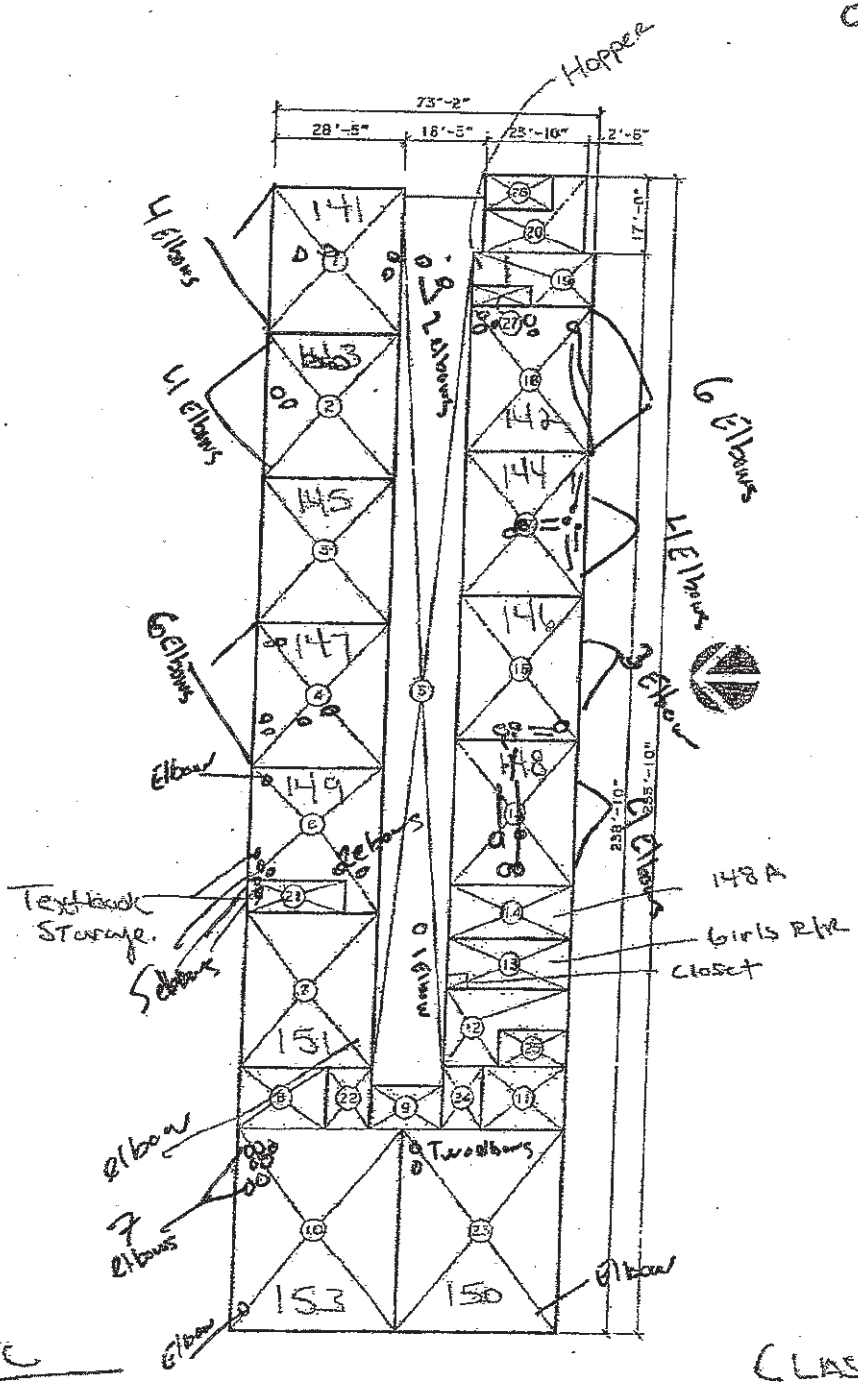
SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

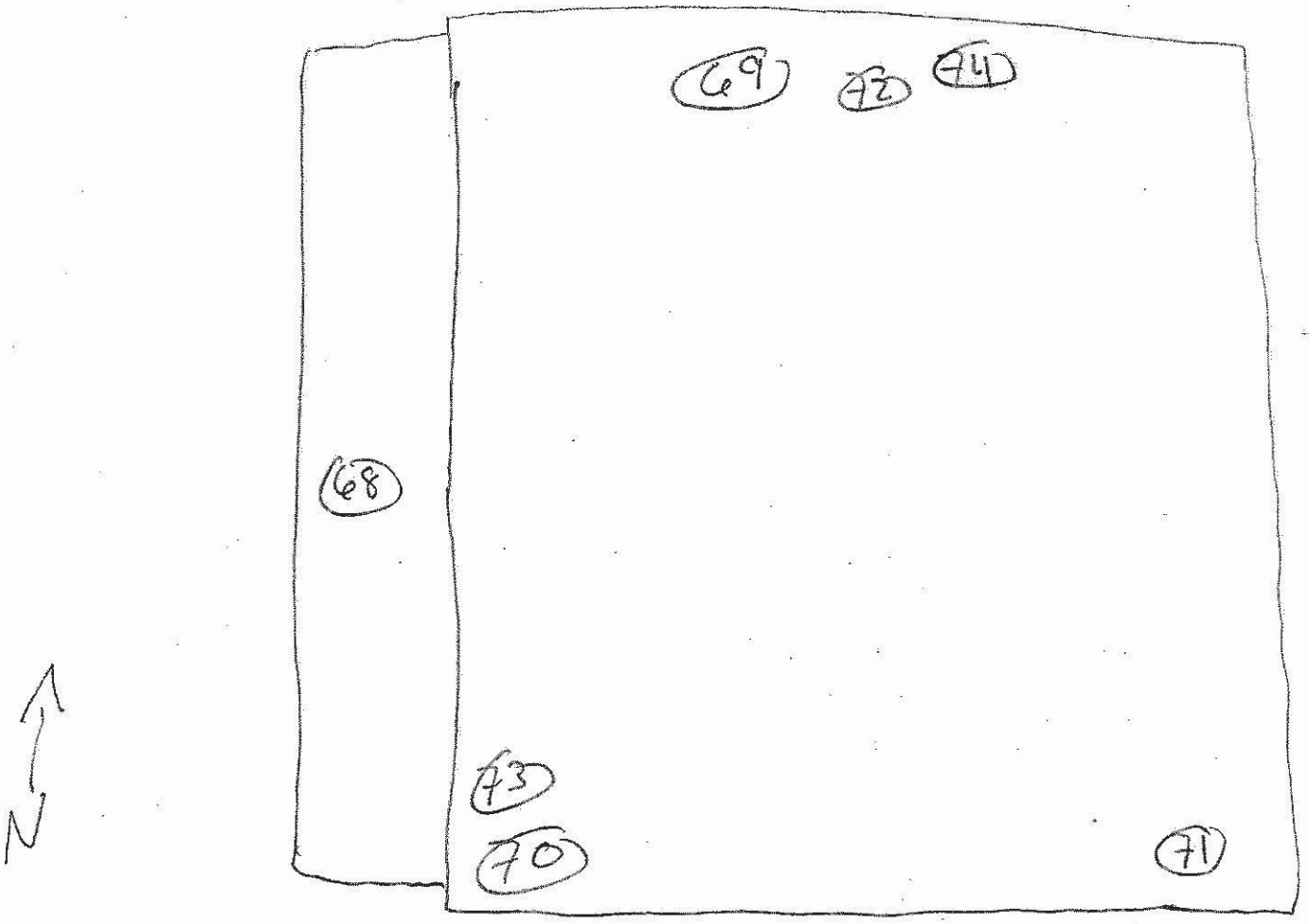
BUILDING 8
FIRST FLOOR

013BCP


Hopper
73'-2"
28'-5"
18'-5"
23'-10"
12'-5"
17'-0"
141
142
143
144
145
146
147
148
149
150
151
153
4 Elbows
4 Elbows
6 Elbows
6 Elbows
4 Elbows
6 Elbows
Elbow
Elbow
Elbow

San Pedro High School #8850
1001 West 15th St. San Pedro, CA 90731
Campus Modernization Project
Food Services Bldg 014 DAP
Roof Sampling
Sampled by: Glenn Colquhoun
CMS Environmental, Inc
2/8/16

#68-70: Rolled Roofing
#71-73: Pitch Pocket Mastic
#74: Penetration Mastic



LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

LOCATION 8850
APPLICATION NO. 22/
DRAWING SNR13F1

SCHOOL: SAN PEDRO HIGH SCHOOL

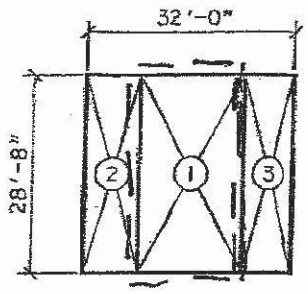
ADDRESS: 1001 WEST 15TH STREET —
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 13

Lunch Service
014PAP

Campus Modernization Project
Inspector: Glenn Colquith
CNS Environmental, Inc.
2/8/16



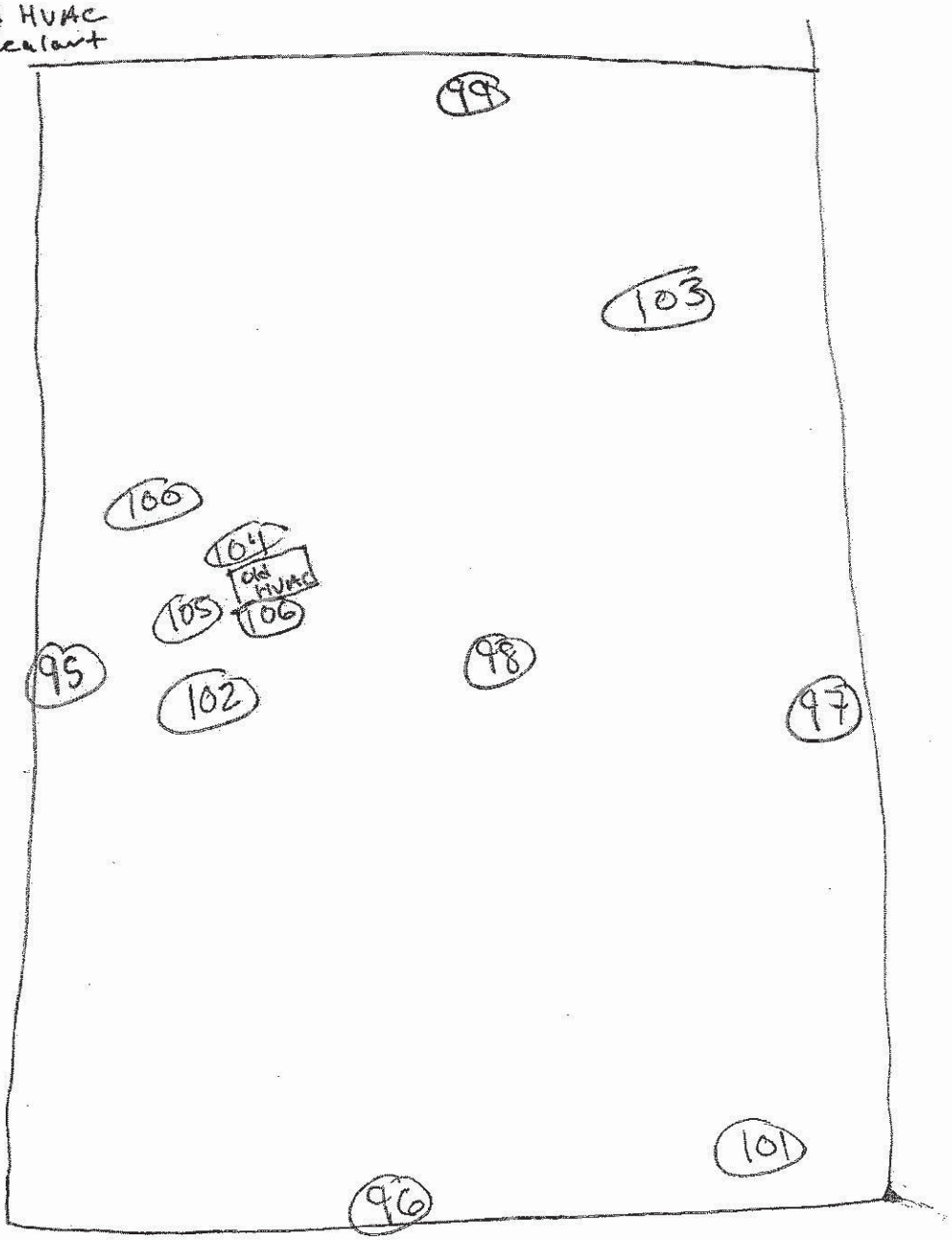

— — = Exterior Stucco
Approx. 1,500 □

PLOT SCALE: 1"=20'-0"

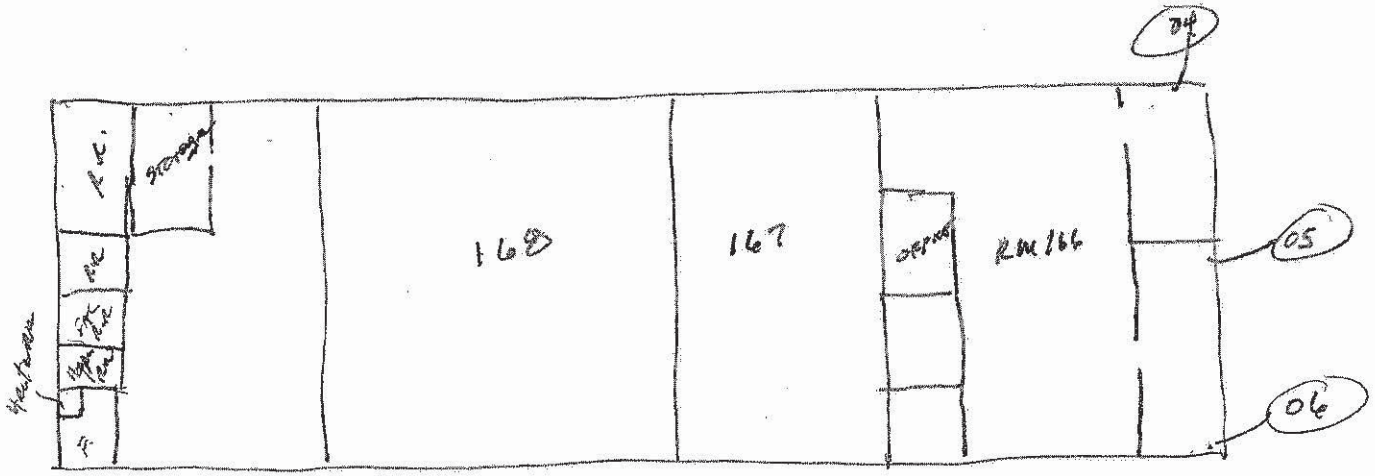
San Pedro High School #8850
1001 West 15th St. San Pedro, CA 90731
Comprehensive Campus Modernization Project
Shop Building 015 DCS
Roof

Samples
#95-97: Parapet
98-100: Pitch Pocket Mastic
101-103: Penetration Mastic
104-106: Old HVAC Sealant

Sampled By: CWS Environmental Inc.
Glenn Colquitt
2-8-16



San Pedro H.S. 9850
1001 w. 15th St. San Pedro CA. 90731
Shop BLD 015 DCS
Class room 166
Booth area
Cement Board #4-6
Stamped by CWS Gen.
Glenn Colgrett
2-8-16
Campus Modernization Project.




N

School Name: San Pedro High School 8850

Address: 1001 West 15th Street
San Pedro, CA 90731

Sampler: Glen Colquites

Date: 2/18/16

Material Sampled: Brown (12"x12") flor tile / BLK Mastic Sample # 7-9

white (12"x12") flour tile / BLK Mastic Sample # 10-12

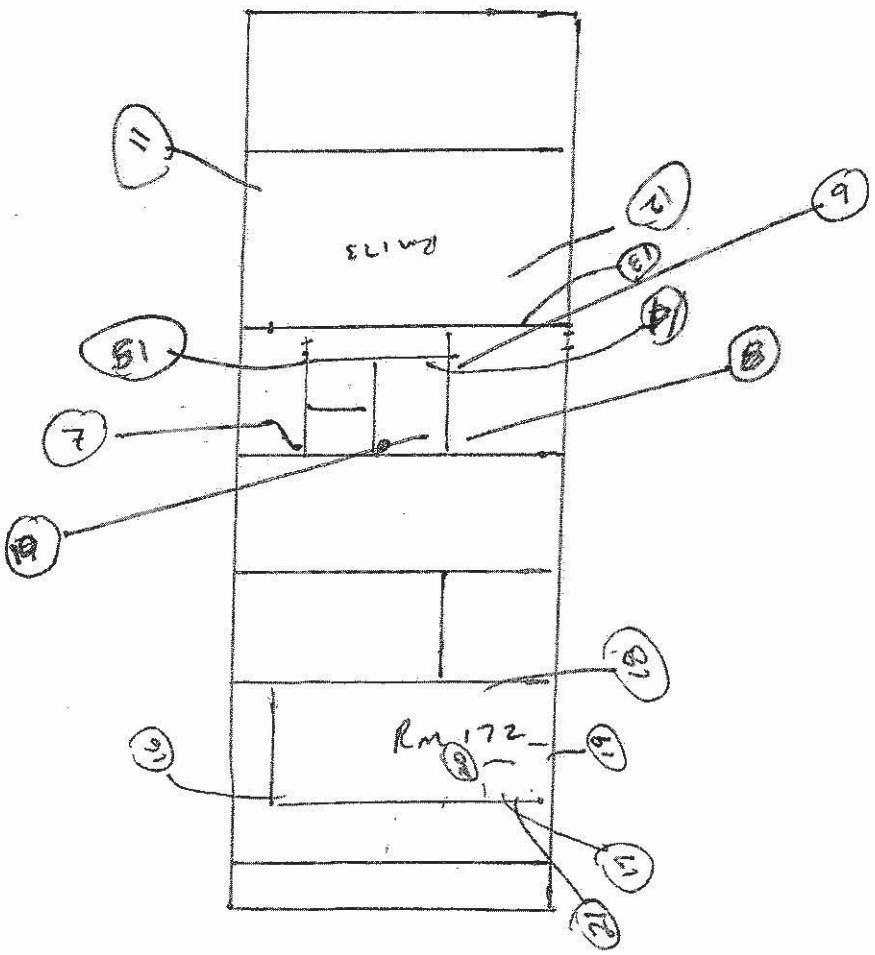
Black Base Cove Sample # 13-15

Gray carpet mastic/yellow Samples # 16-18

Gray 12x12 flyellow mastic Samples # 19-21

Bldg Name: Shop Bluilding

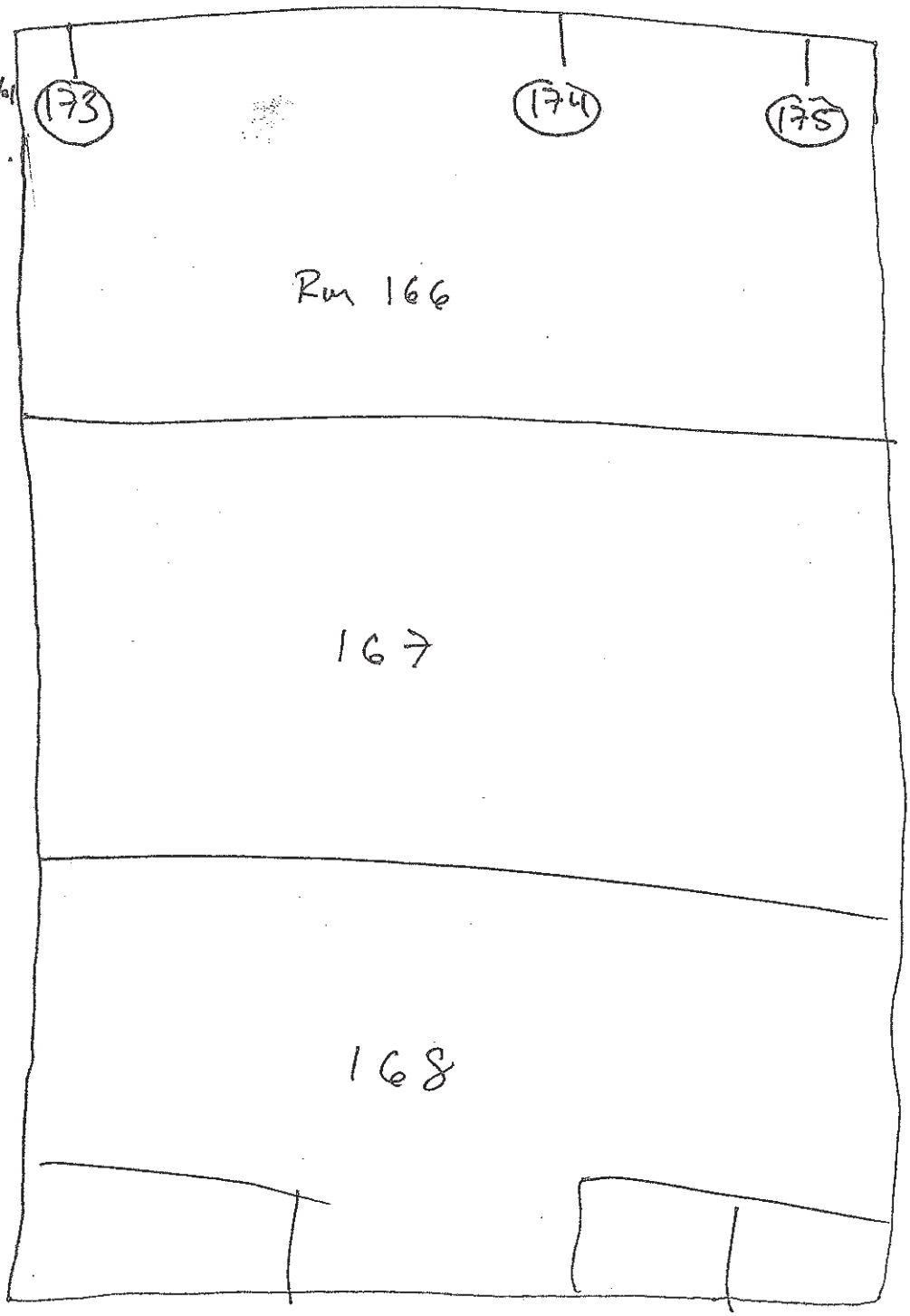
Bldg Number: 015 DCS



San Pedro High School #8850
1001 W. 15th St. San Pedro CA 90731
Campus Modernization Project
~~Industrial Arts Bldg~~ Shop Bldg 015 DCS
# 173-175: Wall Tile Adhesive

work order #
260441559

Sampler:
Glenn Colquitt
CNS Environmental
3/4/16




N →

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

LOCATION 8850
APPLICATION NO. 22/
DRAWING SNR09F2

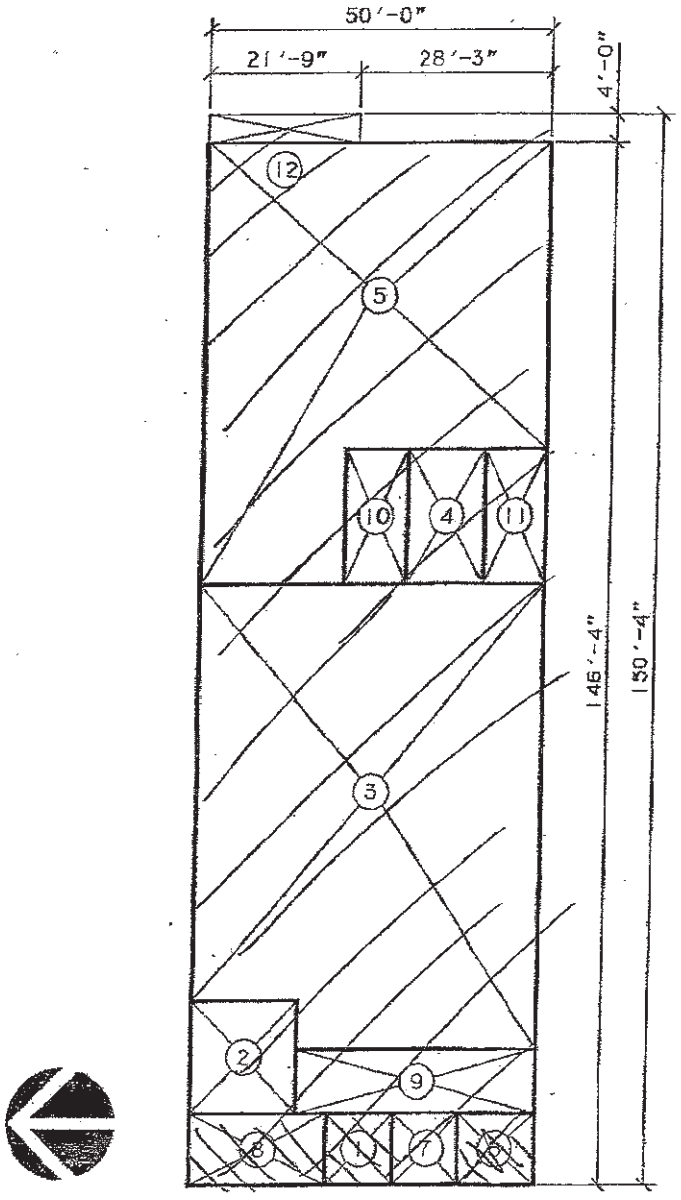
SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 9
SECOND FLOOR

Shop Bldg
015Pcs




= CT Adhesive
300☐

= Smooth Sheet Roof
14,600☐

PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT

DATE: 06/16/91

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850

APPLICATION NO. 22/

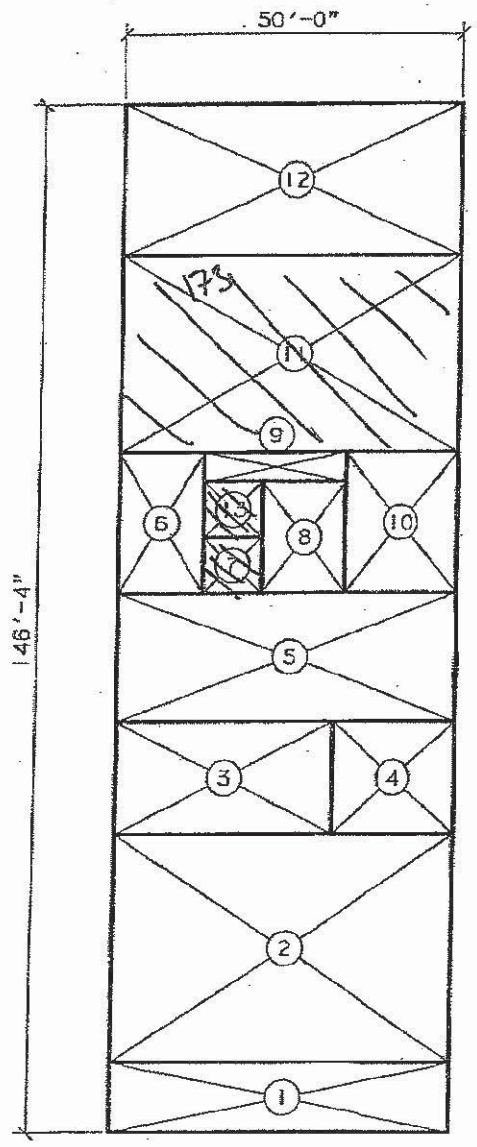
DRAWING SNR09F1

BUILDING 9

FIRST FLOOR

Shop Bldg
015 pcs

= CT Adhesive 1,520 ☐




PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT

DATE: 06/16/91

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850

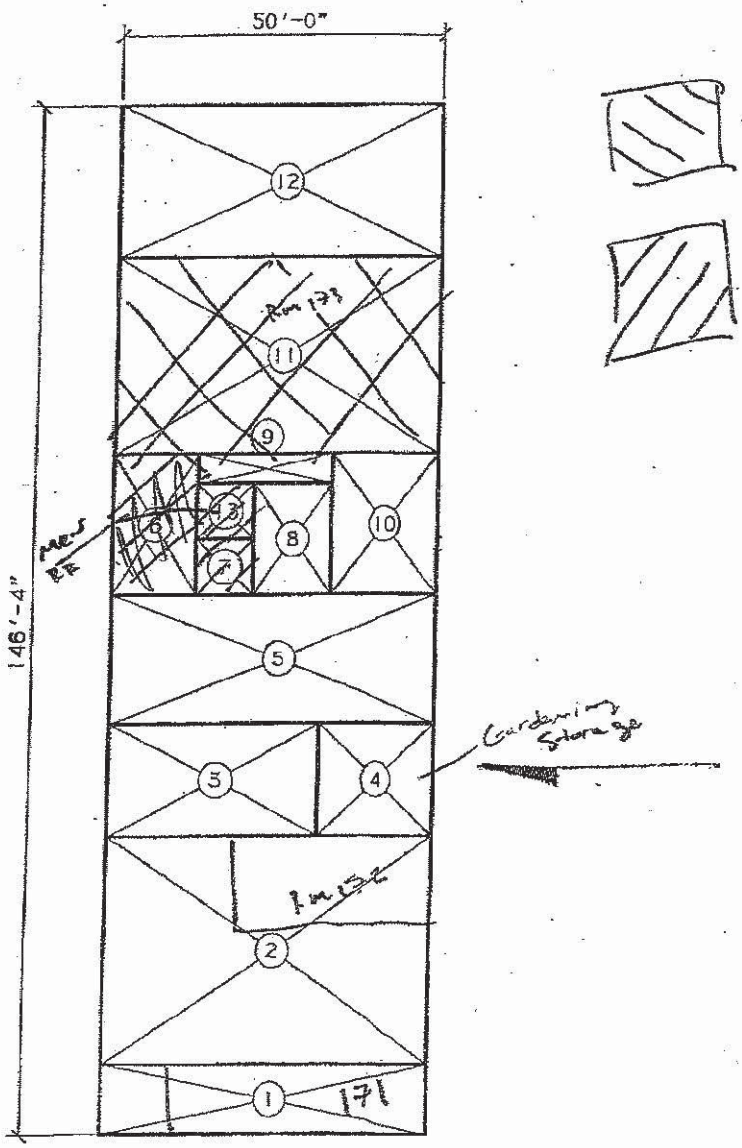
APPLICATION NO. 22/

DRAWING SNR09F1

BUILDING 9

FIRST FLOOR

Shop Bldg
015 Pcs




= CT Adhesive 1406#

= Tape ? Mud Ceiling

1534#

PLOT SCALE: 1"=20'-0"

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

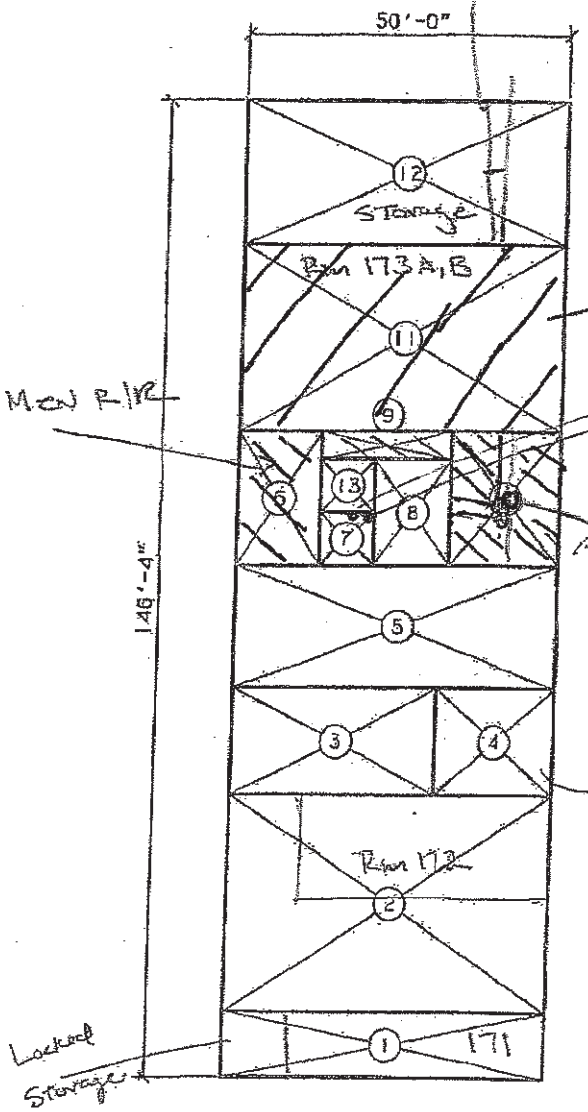
DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850
APPLICATION NO. 221
DRAWING SNR09F1

BUILDING 9
FIRST FLOOR

015DCS

Sampler: Glen Colquitt
Date: 2/16/16
Mt. Sampled: Brown floor tile




= White 12x12 FT with mastic 1,400 SF

= 12x12 Brown FT w/ Mastic 656 SF

Ceiling Space
NO crawl

015DCS
Shop Bldg

PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 06/16/91
SHEET 43 OF 113SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: SAN PEDRO HIGH SCHOOL

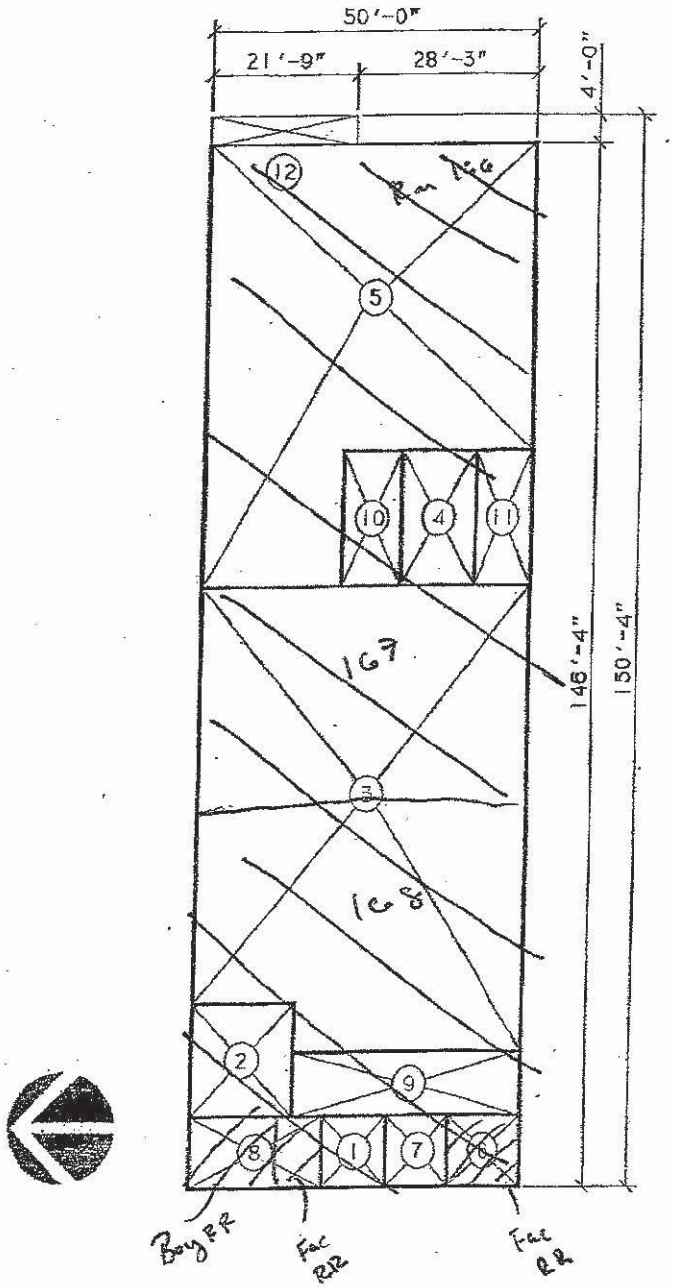
ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850
APPLICATION NO. 221
DRAWING SNR09F2

BUILDING 9
SECOND FLOOR

Shop Bldg
015DCS




= Drywall tape & mud 320

= Pitch Pocket 120
Mastic &
Penetration mastic 200

PLOT SCALE: 1"=20'-0"

DATE 06/16/01

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

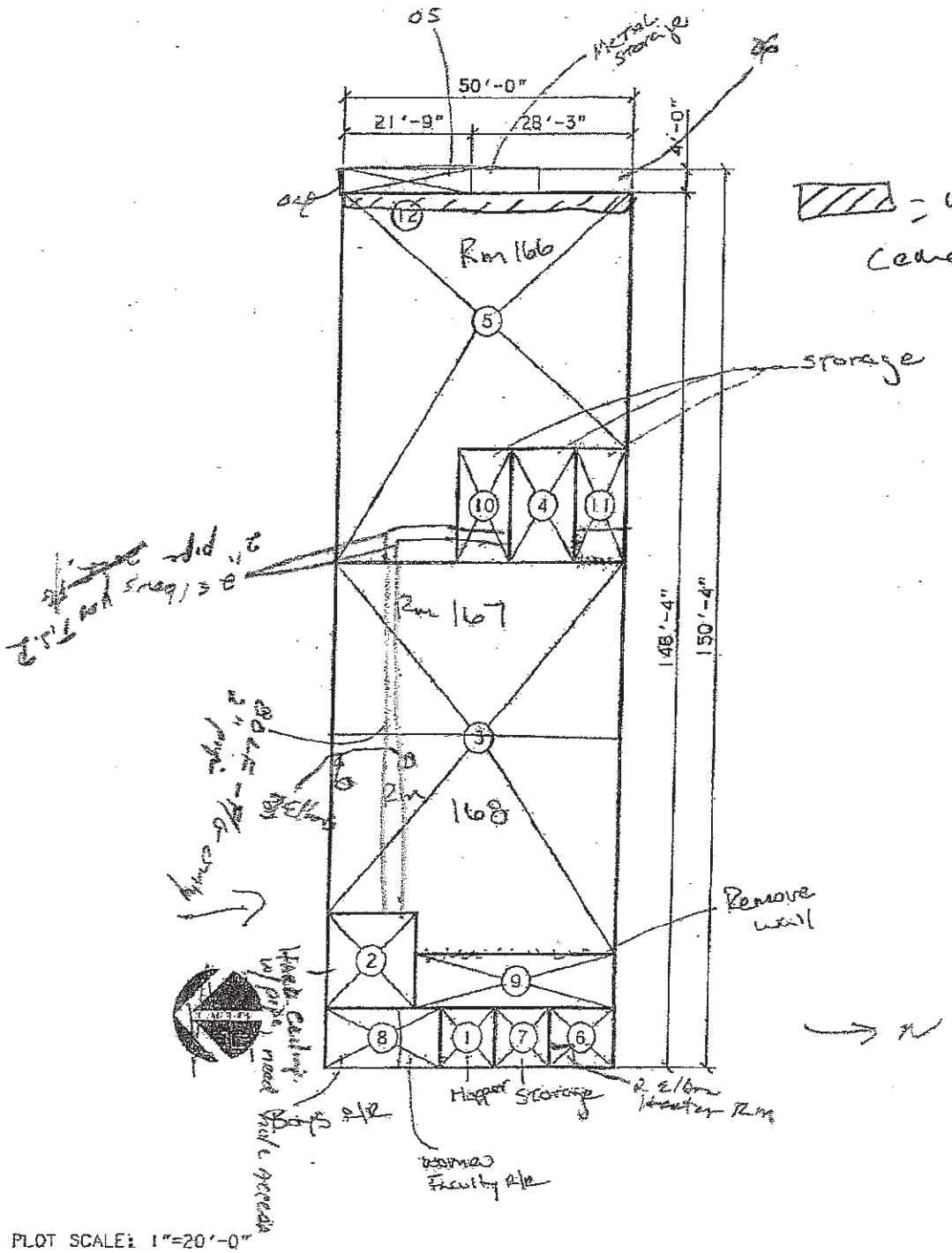
SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850
APPLICATION NO. 22/
DRAWING SNR09F2

BUILDING 9
SECOND FLOOR
015DCS




PLOT SCALE: 1"=20'-0"

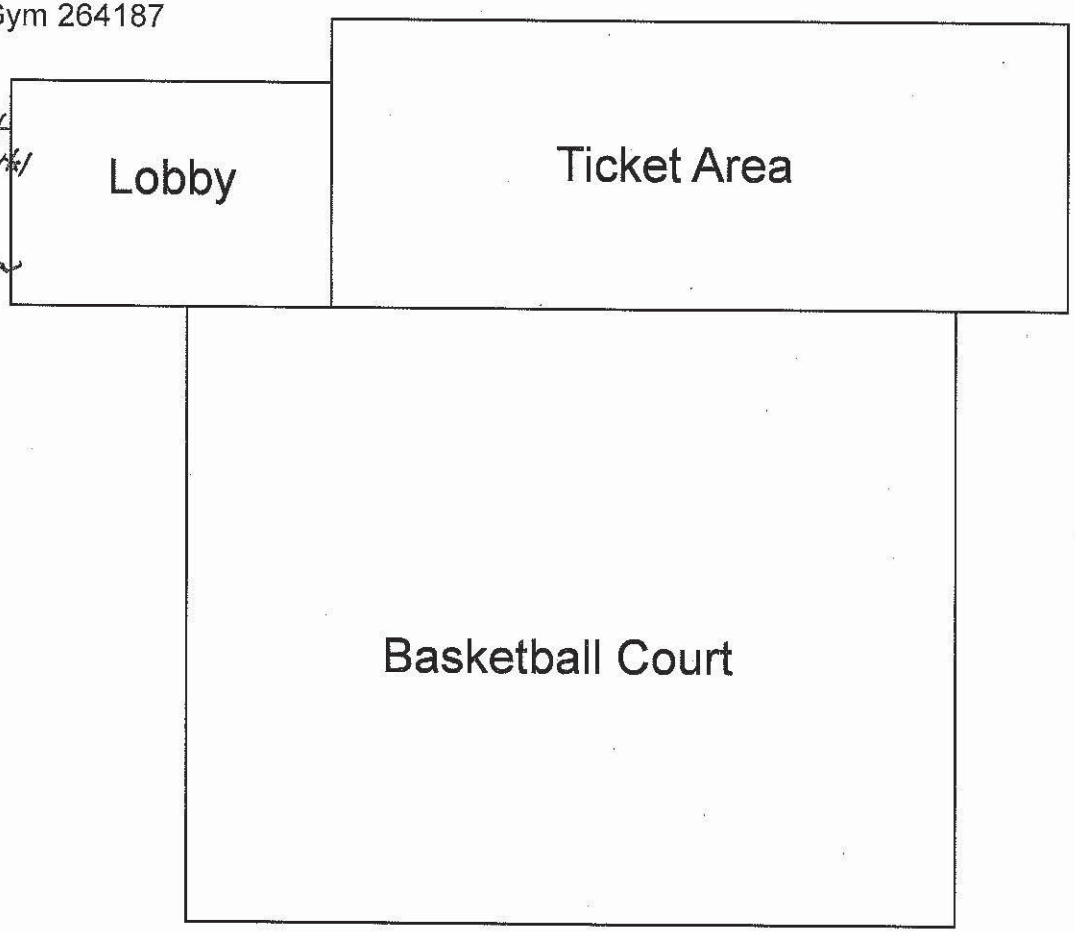
AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 06/16/91
SHEET 45 OF 113SHEETS

San Pedro High School #8850
Los Angles School District
1001 W. 15th Street
San Pedro, CA 90731
BLDG: New Gym 264187

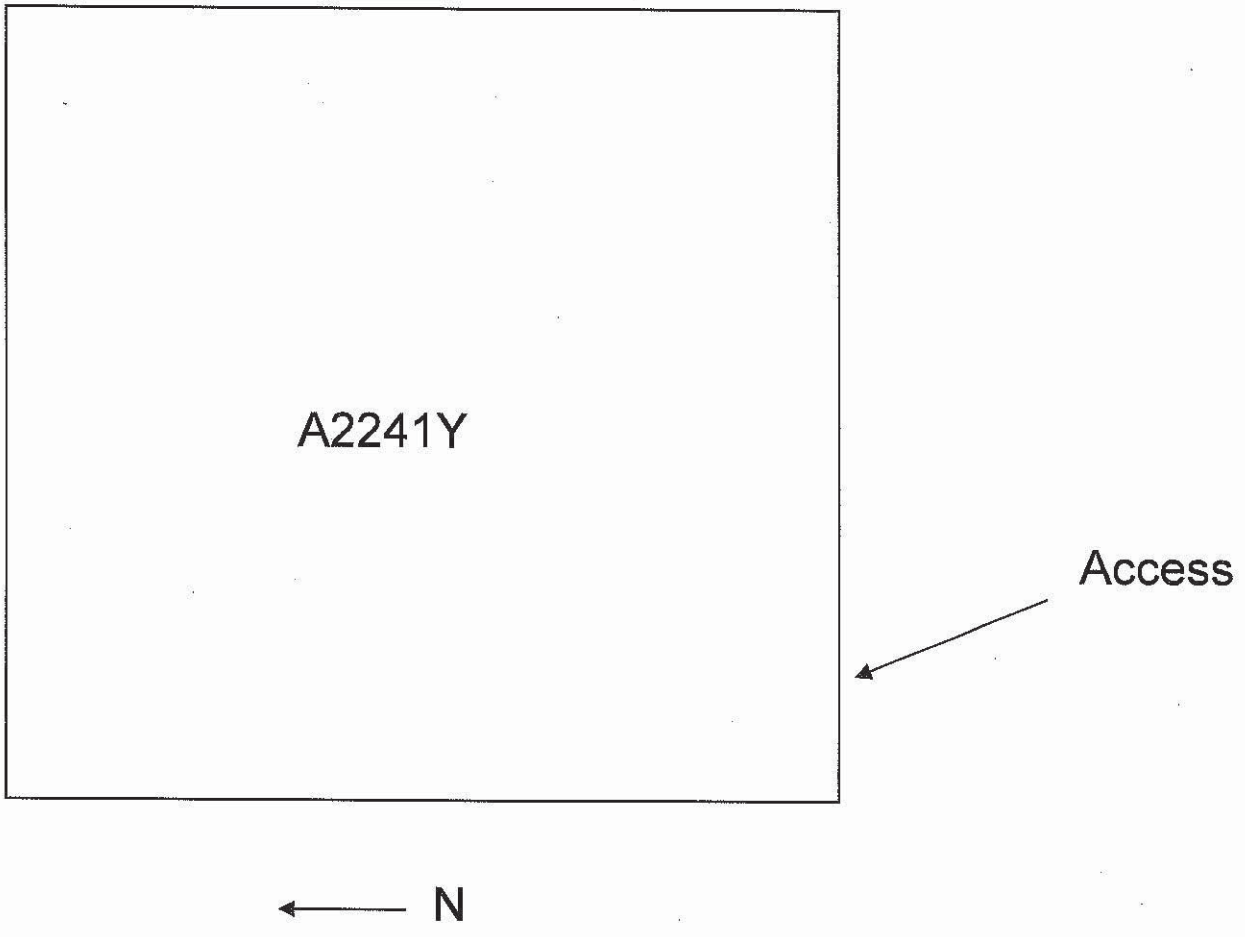
Inspector:
Glenn Colquitt
CNS Environmental
2-8-16

Campus Modernization
Project



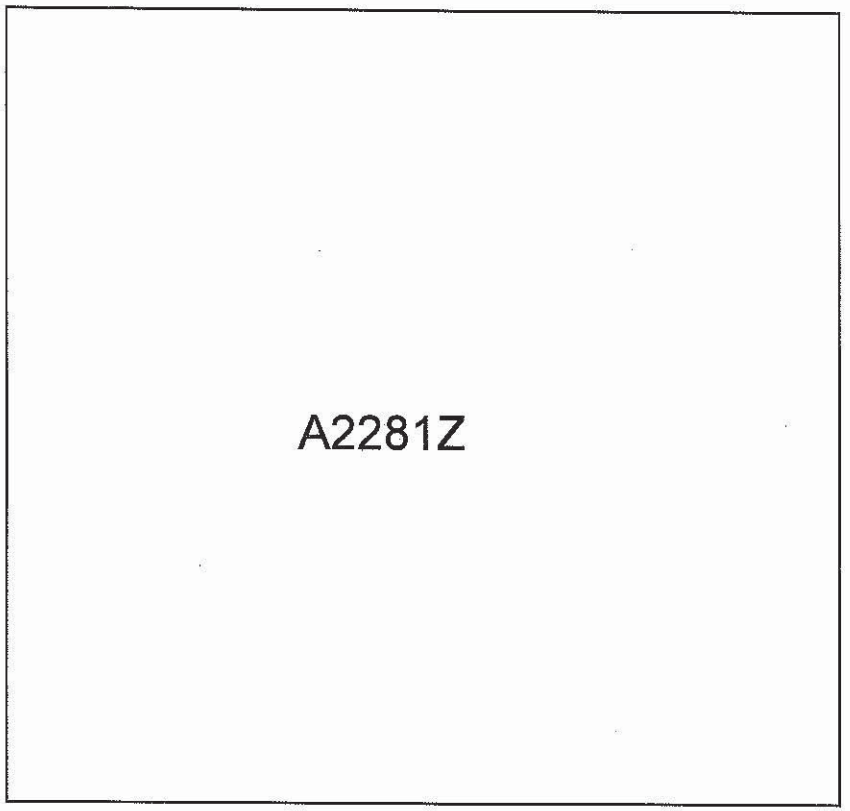
San Pedro High School #8850
1001 West 15th St. San Pedro, CA 90731
Standard Relocatable A2241Y

Campus Modernization Project
Inspector: Glenn Colquitt
CWS Environmental, Inc.
2-8-16



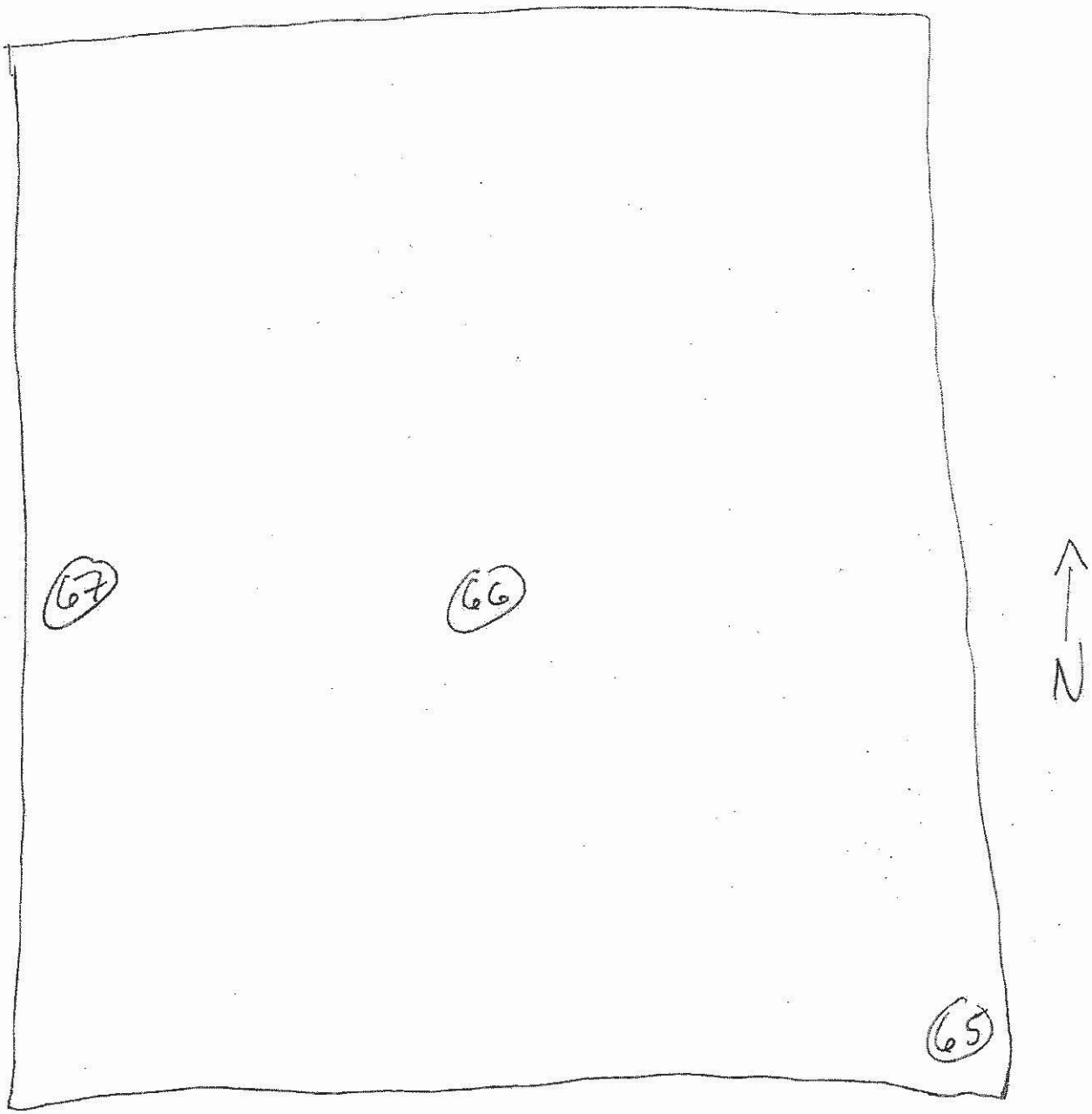
San Pedro High School #8850
1001 West 15th St. San Pedro, CA 90731
Standard Relocatable A2241Z

Campus Modernization Project
Inspector: Glenn Colquitt
CNS Environmental, Inc
2-8-16




← N

San Pedro High School # 8850
1001 west 15th St. San Pedro, CA 90731
Campus Modernization Project
Lunch Shelter PC340K
Rolled Roofing Sampling # 65-67
Sampled by: Glenn Colquitt
CNS Environmental, Inc.
2/18/16



LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850

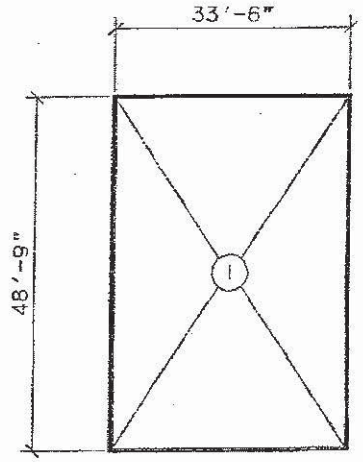
APPLICATION NO. 22/

DRAWING SNR1OF1

BUILDING 10

Lunch Shelter

P0340K




PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT

DATE: 06/16/91

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

Campus Modernization Project

LOCATION 8850

APPLICATION NO. 22/

DRAWING SNR14F1

BUILDING 14

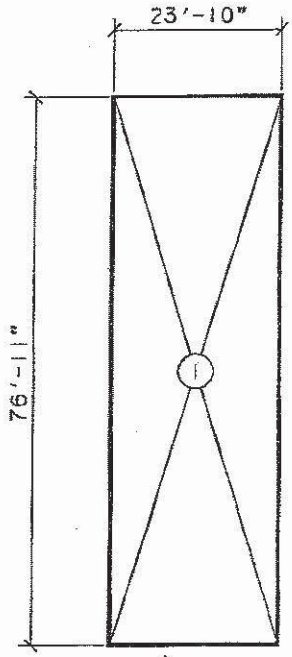
2/3 Relocatable

X 02444K

Inspector: Glenn Colquitt

CNS Environmental, Inc.

2-8-16




PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT

DATE: 06/16/91

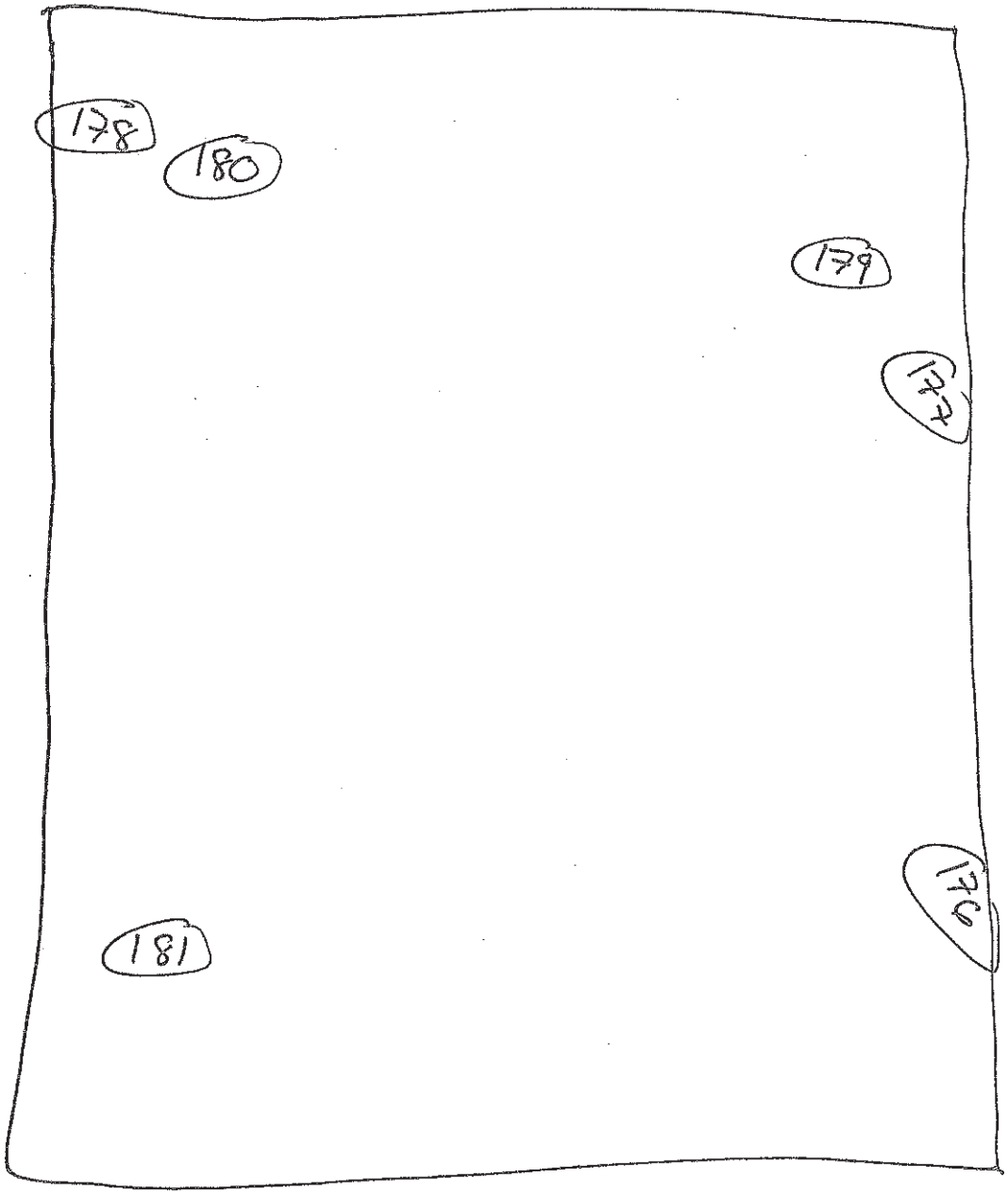
San Pedro High School #8850
1001 w. 15th st. San Pedro, CA 90731
Campus Modernization Project
2/3 Relocatable X0347L
Roofing samples

Work order #:
260441559

#176-178:
Shingle Roofing

#179-181:
Pitch Pocket
Mastic

Sampler: Glenn Colpitt
CAS Environmental, Inc.
3/4/16

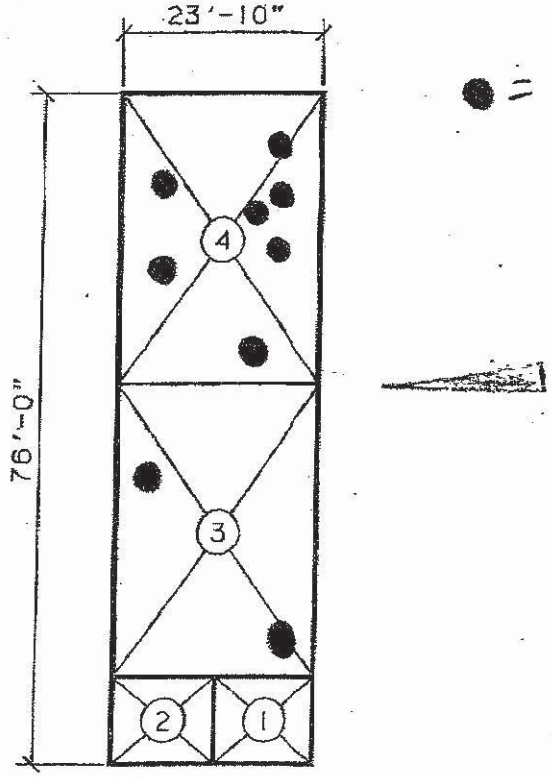


ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

BUILDING 15

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

213 Relocatable
X0347L
Campus modernization
Inspector:
Glenn Colquitt
CNS Environmental, S.
3/4/16

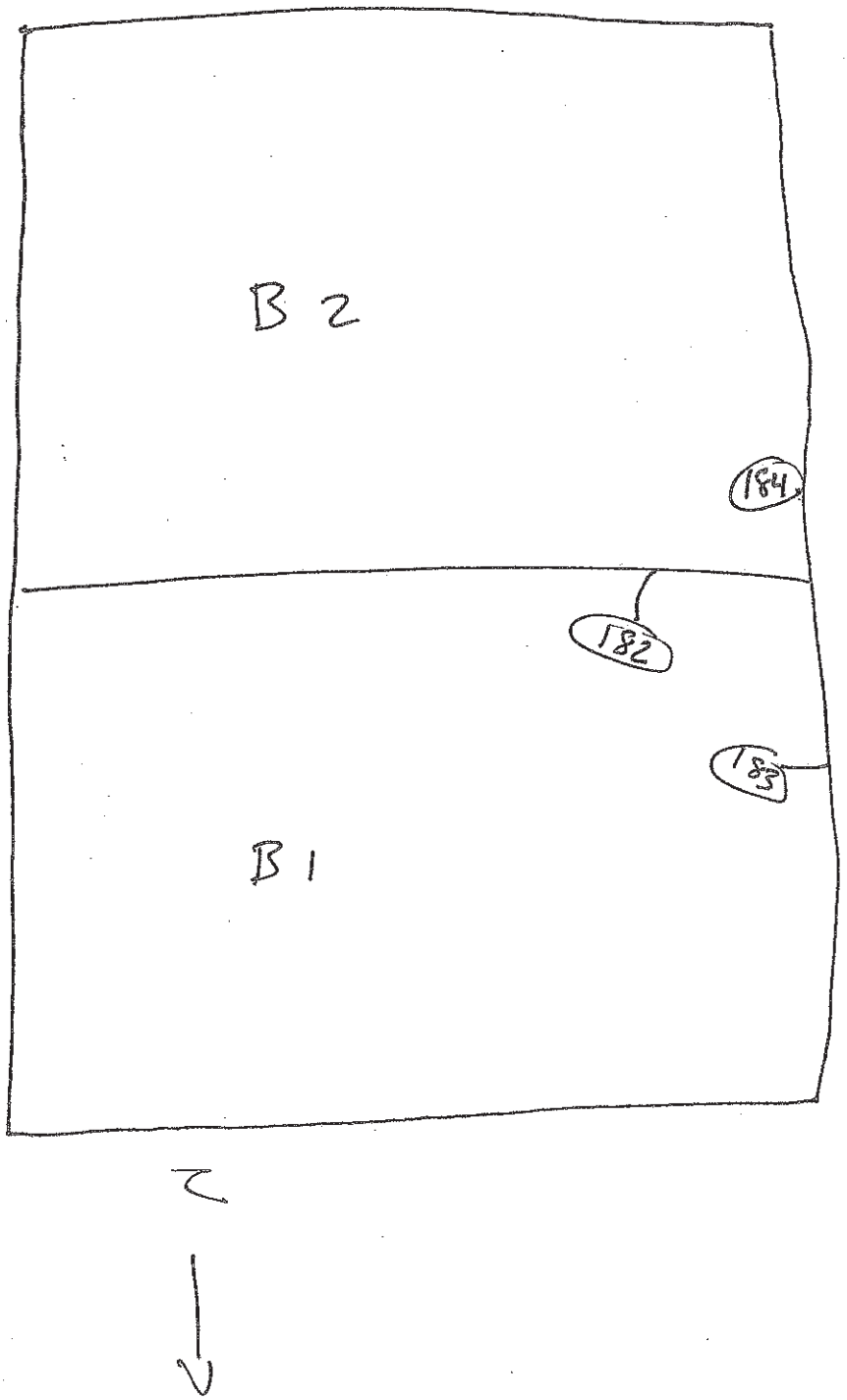



● = Pitch Pocket
mastic
8 ☐

San Pedro High School #8850
1001 W. 15th St. San Pedro, CA 90731
Campus Modernization Project
2/3 Relocatable X1007m
# ~~179-181~~ 182-184 GC : Compound on wood walls

Sampler: Glenn Colquitt
CNS Environmental, Inc.
3/4/16

Work order #:
2604459



LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

LOCATION 8850
APPLICATION NO. 22/
DRAWING SNR16F1

SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

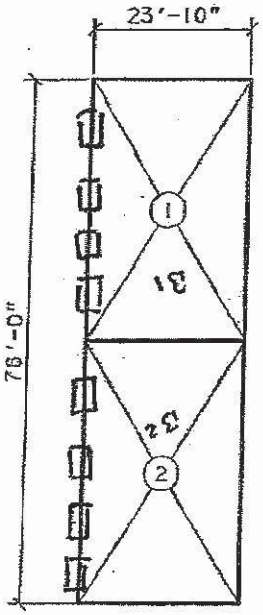
BUILDING 16

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

2/3 Relocatable
X 1007m

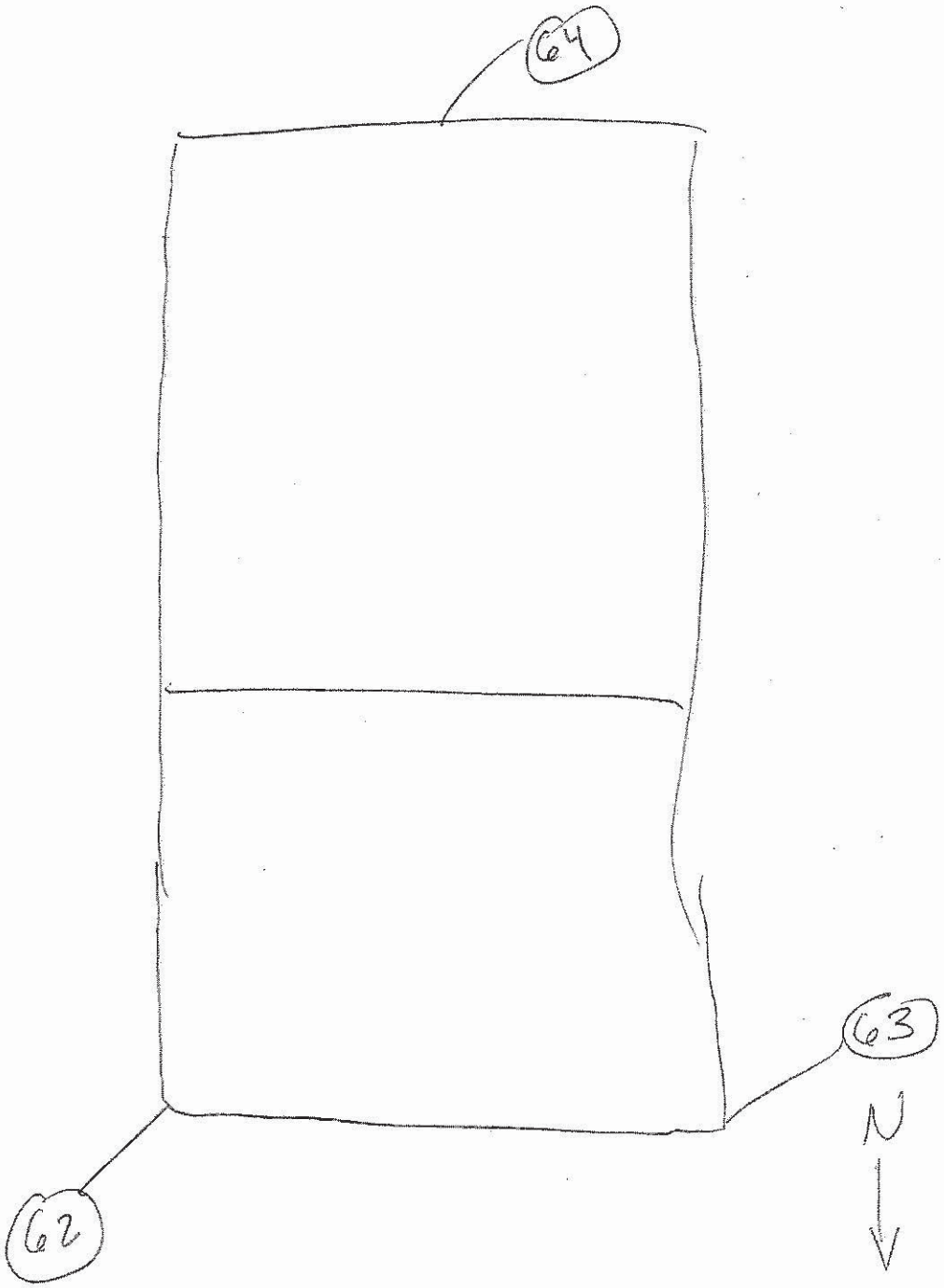
Campus Modernization Project
Inspector: Glenn Colquitt
CMS Environmental, Inc.
2/8/16

[] = window Putty
8 windows




PLOT SCALE: 1"=20'-0"

San Pedro High School #8850
1001 west 18th st San Pedro, CA 90731
Comprehensive Campus Modernization Project
2/3 Relocatable Bldg #2082P
Sampled by: Glenn Colquitt
CMS Environmental, Inc
2-8-16
Samples: G2-G4 moisture Barrier Paper



LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

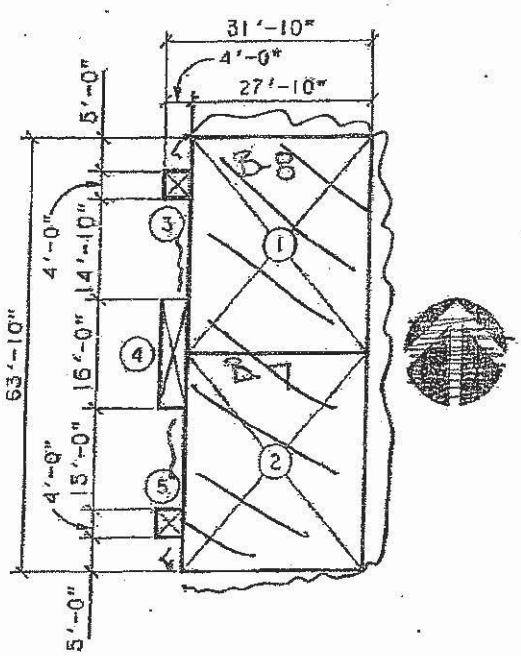
DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850

APPLICATION NO. 221

DRAWING SNR18F1

BUILDING 18
X2082P




= Stucco walls
4800 ☐

= Penetration Mastic
2000 ☐

Ceiling Space
Crawl

AA-2082

PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 06/15/91
SHEET 65 OF 113 SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

LOCATION 8850
APPLICATION NO. 22/
DRAWING SNRIIFI

SCHOOL: SAN PEDRO HIGH SCHOOL

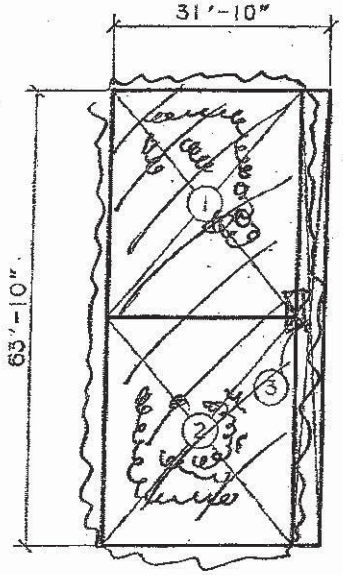
ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

BUILDING 11

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

Campus Modernization Project 2/3 Relocatable
X2383P

Inspected By:
Glenn Colquitt
CNS Environmental, Inc.
2-8-16




= Vibration Reducer

~~~ = Stucco wall
16,000 ☐

= Penetration mastic
300 ☐

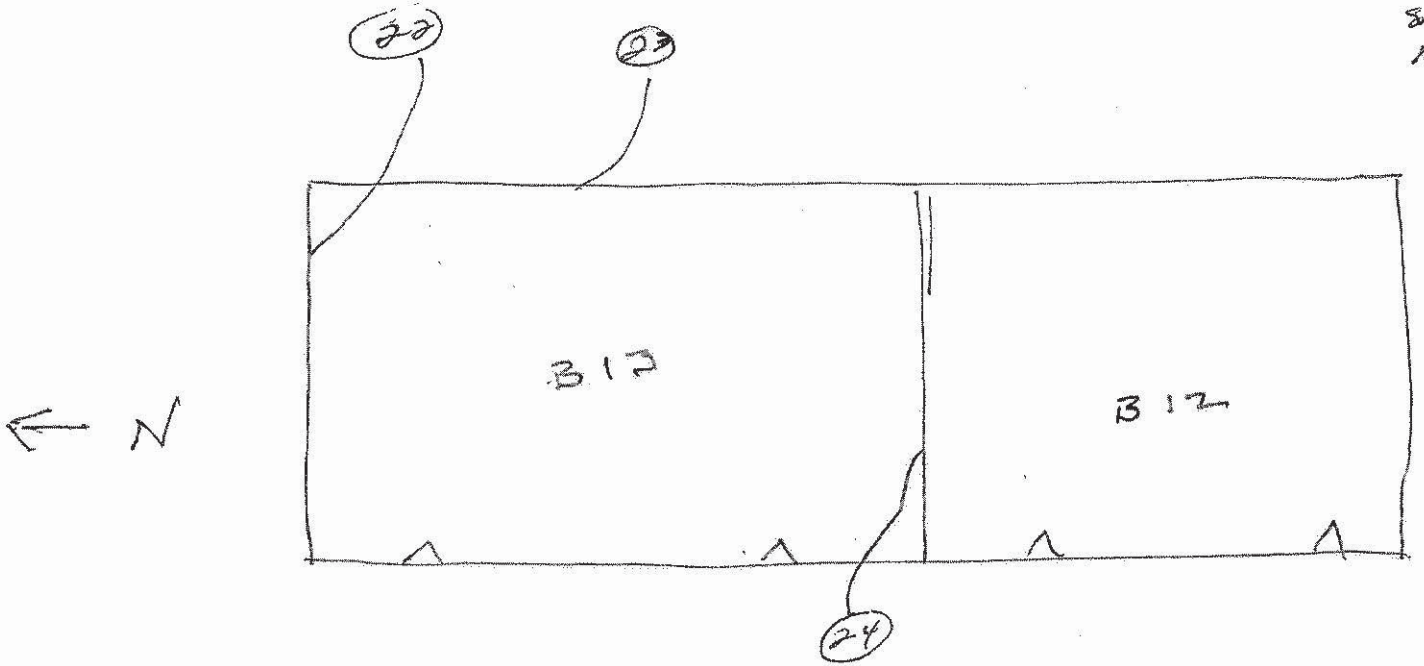
PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 06/16/91
SHEET 49 OF 113SHEETS
~~~

San Pedro H.S. 8850
1001 W. 15th, San Pedro CA 90731

2/3 relocatable 02384P
Stamped by CWS Glenn Colquitt
Date 2-8-16
4" Recess Box core w/mastic
Stamped 22-24
RM B13
Campus Modernization Project.



LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

LOCATION 8850
APPLICATION NO. 22/
DRAWING SNR12F1

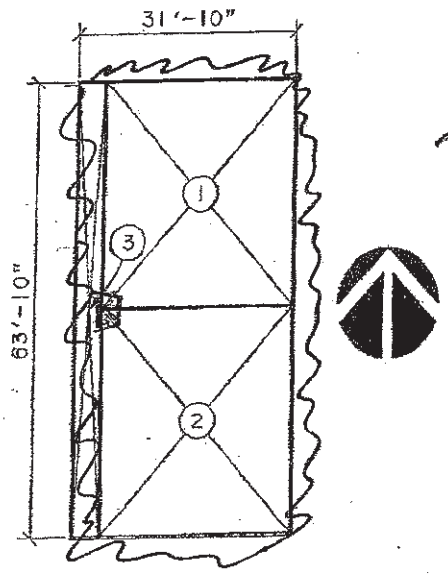
SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 12

2/3 Relocatable
X2 @ 384 P




☒: Vibration Reducer
4 P

= Stucco wall
2,800 SF

PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT

DATE: 06/16/91

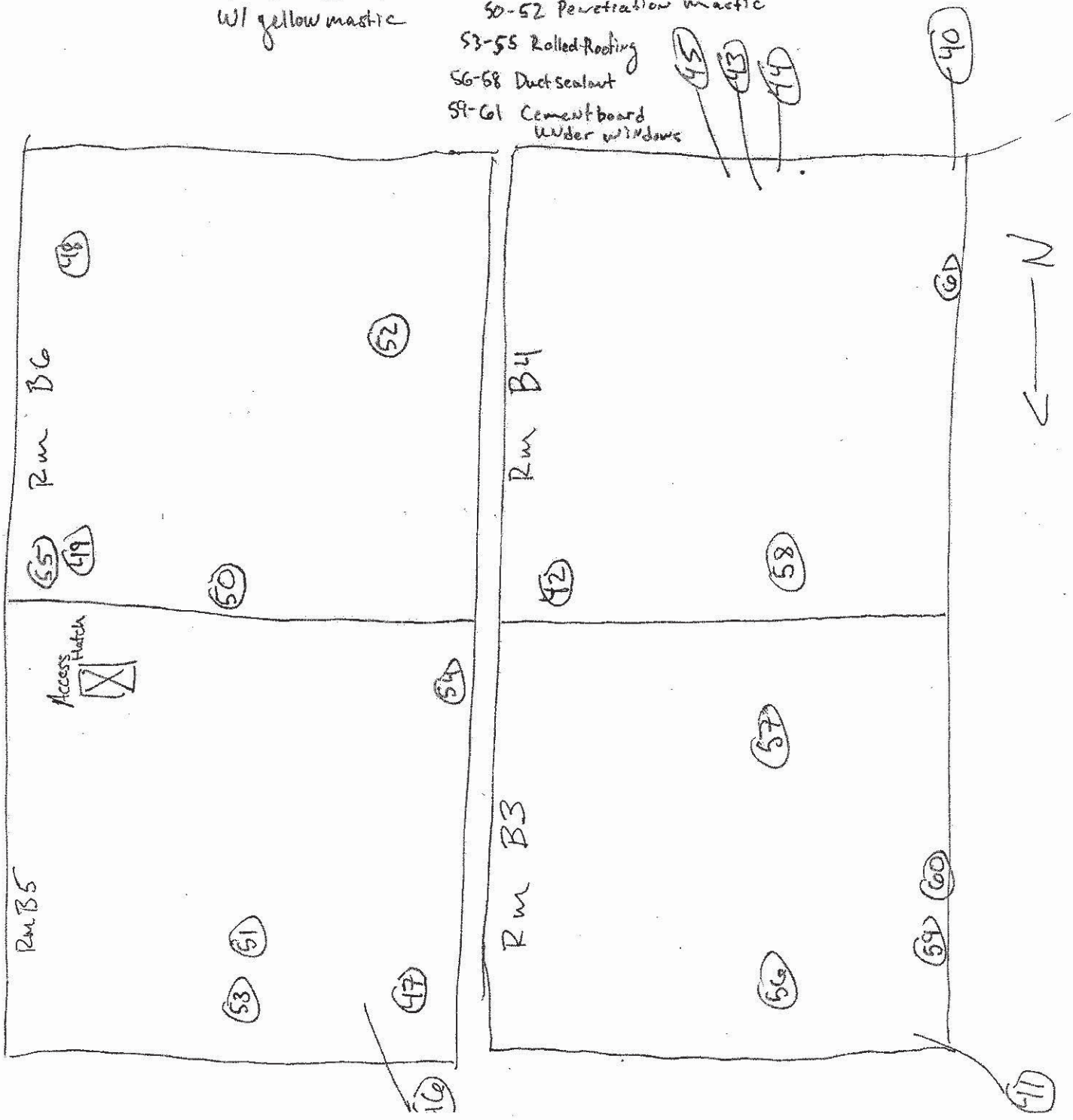
San Pedro High School #8850
1001 west 15th St. San Pedro, CA 90731
Campus Modernization Project
2/3 Relocatable Bldg #81825
12x12 Floortile Sampling
Sampler: CMS Environmental, Inc.
Glenn Colquitt 02/08/16

Samples
#40-42: Brown/orange 12x12 FT w/mastic

#43-45: 12x12 FT Brown Patch w/ yellow mastic

Sample #46: Canvas off fiberglass pipe insulation above 2x4 CT

47-49 Pitch Pocket mastic
50-52 Penetration mastic
53-55 Rolled Roofing
56-58 Duct sealant
59-61 Cement board under windows



LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

SCHOOL: SAN PEDRO HIGH SCHOOL

ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850

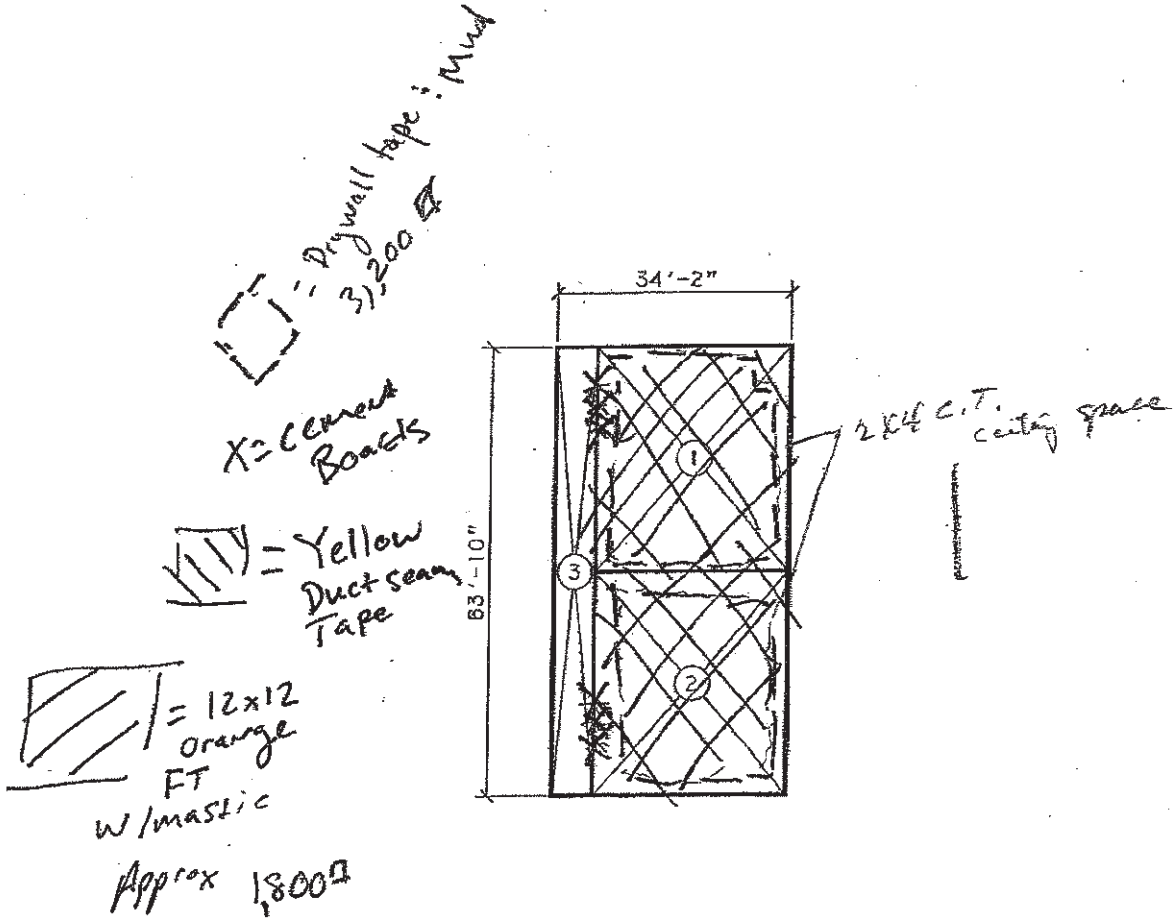
APPLICATION NO. 22/

DRAWING SNR17F1

BUILDING 17

FIRST FLOOR

2 Story Relocatable
Z 01825




= Drywall tape + Mud
31,200 ☐

X = Cement Boards

= Yellow Duct seam Tape

= 12x12 orange FT w/mastic

Approx 1,800☐

PLOT SCALE: 1"=20'-0"

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: SAN PEDRO HIGH SCHOOL

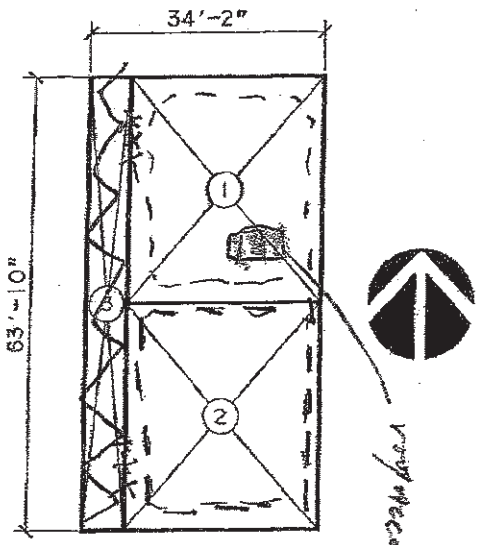
ADDRESS: 1001 WEST 15TH STREET
SAN PEDRO, CA 90731

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8850
APPLICATION NO. 22/
DRAWING SNR17F2

BUILDING 17
SECOND FLOOR

2 story Relocatable
20182S




PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT

DATE: 06/16/91

SCHOOL SAN PEDRO S.H.

Location Code 61.81.5101 Maintenance Area 6

List each building and room inspected. Where asbestos is found, circle the room and indicate condition of the material and the sample number. Use several lines if necessary. If material is damaged or easily accessible to students/staff, fill out a condition report and take samples.

| Building Name | Bldg. I.D. # | Room/Space Description | Material Description | Samples |
|---|---|---|---|---|
| AUDITORIUM | 2 B-J | FAN ROOM | 100 FT. PIPE INSULL. (Good) | 0 |
| Aud. | 2 B-J | UNDER BLDG. | 600 FT PIPE INSULL. (Good) | 0 |
| HOME ECONOMICS | 3 B-J | ATTIC | 300 FT. PIPE-INSULATION Good | 2 |
| " | 3-B-J | CAFETERA / LUNCH AREA | OK (Good) | 0 |
| " | 3-B-J | ATTIC | DEBRE-ON FLOOR } PIPE INSULL. (Good) | 1 |
| " | 3-B-J | UNDER BLDG. | 1000 FT PIPE INSULL. (DEBRE) (BAD) | 0 |
| ADMINISTRATION | 4 B-J | MAIN BOILER ROOM | 200 FT PIPE INSULATION (Good) | 0 |
| " | " | ATTIC by Room (200) | 600 FT. PIPE INSULL. DEBRE ... (BAD) | 0 |
| CLASS ROOM II | 5 B-J | UNDER BLDG. | 800 FT. PIPE INSULL. (DEBRE) — (BAD) | 3 |
| " | " | ATTIC | 600 FT. PIPE INSULL. (DEBRE) (Good) | 3 |
| PHYSICAL EDUCATION | 6 C J | BOILER ROOM | 150 SQ. FT TANK (BAD) 30 FT. PIPE. INSULATION | 3 |
| " | 6 C J | ATTIC - GIRLS P.E. | 200 FT PIPE - Good DEBRE — (BAD) | 0 |
| " | " | MAIN GYM | 80 FT (FAIR) PIPE INSULL. | 0 |
| GIRLS GYM | 10 D-T | FAN ROOM | 60 FT. PIPE INSULL. (Good) | 4 |
| CLASS ROOM II | 13 D-P | BOILER ROOM SECOND FLOOR | 25 SQ FT. TANK (BAD) / 20 FT PIPE (BAD) | 5 |
| CLASS ROOM | 2182-S | OK | OK | 0 |
| INDUSTRIAL ART | 1 C-J | STORE ROOM, ELECTRIC (ROOM 160) SHOP | 65 PIPE INSULL. BAD | 6 |
| " | " | Rm 161 Weld SHOP | 650 FT. PIPE INSULL. (BAD) | 0 |
| CLASS ROOM I | 5 B-J | (ATTIC) ROOM 236 | 300 FT. PIPE INSULL. (DEBRE) (Good) | 7 |
| INDUST. ART | 1 C-J | MACHINE SHOP Rm. 163 | 500 FT. PIPE INSULL. (BAD) | 0 |
| " | " | AUTO SHOP | 160 FT. PIPE INSULL. (PIPE-ENGINE, 8) (Good) | 8 |
| SHOP | 15 D-S | 165 163 - 168 OK | Good | 0 |

SCHOOL [illegible]

Location Code 818 5101 Maintenance Area 6

List each building and room inspected. Where asbestos is found, circle the room and indicate condition of the material and the sample number. Use several lines if necessary. If material is damaged or easily accessible to students/staff, fill out a condition report and take samples.

| Building Name | Bldg. I.D. # | Room/Space Description | Material Description | Sample |
|---|---|---|---|---|
| AA Bldgs. | X2383P | OK | Good | J |
| AA Bldgs. | X2384P | OK | Good | O |
| AA Bldgs. | X1997M | OK | Good | O |
| Home Economics | 3BJ | Student dinning room | 75 FT. Pipe insulation (Good) | O |
| | | | | |
| | | | | |
| | | | |

ASBESTOS SUMMARY REPORT for SCHOOL San Pedro Loc. Code 618150 2 of ___

| ding # | Location | Sample #'s | Material | Area (ft²) | Condition |
|---|---|---|---|---|---|
| GCJ | MAIN GYM | 0 | PIPE INSULLATION | 80 FT. | FAIR |
| LS GYM | FAN ROOM | 4 | " " | 60 FT. | Good |
| ER ROOM T. | BOILER ROOM SECOND FLOOR | 5 | TANK + PIPE INSULL. | 35 FT. - TANK 20 FT. - PIPE | BAD |
| " L182-5 | CLASS ROOM | 0 | OK | 0 | Good |
| ART | STORE ROOM Rm. 160 ELECTRIC SHOP | 6 | PIPE INSULLATION | 65 FT. | Bad |
| ART | Rm. 161 WOOD SHOP | 0 | PIPE INSULLATION | 650 FT. | BAD |
| ER ROOM L. | ATTIC Rm. 236 | 7 | PIPE INSULLATION | 300 FT. | Good |
| DUSTRIAL ART | MACHINE SHOP Rm. 167 | 0 | PIPE INSULLATION | 500 FT. | BAD |
| " | AUTO SHOP | 8 | PIPE INSULLATION | 160 FT. | Good |
| SHOP | 165, 166, 168, | 0 | OK | 0 | Good |
| | | | | | |
| | | | | | |

spected by _____ Signature _____ Date __/__/__

tain one copy in Area files. Send one copy to Maintenance Branch Office. Send one copy to Safety Section (SSC, Rm ...

ASBESTOS SUMMARY REPORT for SCHOOL SAN PEDRO Loc. Code 6163.10 Page 1 of

| Bldg # | Location | Sample #'s | Material | Area (ft²) | Condition |
|---|---|---|---|---|---|
| 1. 2BJ | FAN ROOM | 0 | PIPE INSULATION | 100 FT PIPE | Good |
| " | UNDER-BLDG. | 0 | " " | 300 FT. PIPE | Good |
| 3BJ | ATTIC | 2 | " " | 300 FT. | Good |
| " | CAFE (LUNCH | 0 | " " | OK | Good |
| " | ATTIC | 1 | PIPE INSULATION & debris on floor | OK | Good |
| " | UNDER BLDG. | 0 | " " & debris | 1000 FT. pipe | Bad |
| m. 4BJ | MAIN BOILER ROOM | 0 | " " | 300 FT. pipe | Good |
| " " | ATTIC By Rm. 200 | 0 | " " | 200 FT. pipe | BAD |
| ssroom I. | UNDER BLDG. | 0 | PIPE INSULATION + (DEBRE) | 800 FT. | BAD |
| " | ATTIC | 0 | " " + (DEBRE) | 800 FT. | Good |
| CCJ | BOILER ROOM | 3 | INSULATION TANK / PIPE | 150 FT. / 30 FT. | BAD |
| CCJ | ATTIC GIRLS P.E. | 0 | PIPE INSULATION / DEBRE | 200 FT. | BAD |

ected by RICHARD R. FRICK Signature Richard R Frick Date 7/18/82

in one copy in Area files. Send one copy to Maintenance Branch Office. Send one copy to Safety Section (ESC, [illegible])

Removal ASBESTOS SUMMARY REPORT for SCHOOL San Pedro Loc. Code 818510 Page 2 of

| Building # | Location | Sample #'s | Material | Area(ft²) | Condition |
|---|---|---|---|---|---|
| Science | Class Room | 9 | asbestos | | Good? |
| 90 159 | | | | | CH 70% 11 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
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| | | | | | |
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| | | | | | |
| | | | | | |
| | | | | | |

Inspected by Feliciano Signature D. Feliciano Date 9/23/83

Retain one copy in Area files. Send one copy to Maintenance Branch Office. Send one copy to Safety Section (BSC, Rm 21.

ASBESTOS BULK SAMPLE LOG.

SITE: SAN PEDRO H.S.
LOC. CODE 8850

TAKEN BY: J. TYSON
DATE: 2-11-88
AREA: 06

Fill in all information Legibly and Precisely. DO NOT USE PENCIL
One copy for Area files (if applicable), one copy to Safety with samples, original to Technical Supervisor.

| Sample # | Lab Sample# | Building | Room/Area | Location in Rm/Ar | Application | Condition | Notes |
|---|---|---|---|---|---|---|---|
| 1 | 908006 | BOYS' GYM | BASKETBALL COURT | CENTERLINE PIPE NORTH END | PIPE INSULATION | FAIR | |
| 2 | 908007 | BOYS' GYM | BASKET BALL COURT | CENTERLINE PIPE MIDDLE | PIPE INSULATION | FAIR | |
| 3 | 908008 | BOYS' GYM | BASKETBALL COURT | CENTERLINE PIPE SOUTH END | PIPE INSULATION | FAIR | |
| 4 | 908009 | BOYS' GYM | BASKET BALL COURT | WEST SIDE PIPE NORTH END | PIPE INSULATION | FAIR | RED TINT |
| 5 | 908010 | BOYS' GYM | BASKET BALL COURT | WEST SIDE PIPE SOUTH END | PIPE INSULATION | FAIR | |
| 6 | 908011 | BOYS' GYM | BASKETBALL COURT | WEST SIDE PIPE SOUTH ELBOW | PIPE INSULATION | FAIR | BOTTOM, NEAR FLOOR |

NOTE: Analysis report to be attached to this sheet and returned to Asbestos Technical Supervisor

LAUSD
Safety Section
(213) 742-7371

ROUTINE REPORT FORM
ASBESTOS BULK SAMPLE ANALYSIS
(POLARIZED LIGHT MICROSCOPY/EPA-600/M4-82-020 DEC 1982)
(Note: Standard statistical error: 0-10% asbestos = ± 50%; = 11% asbestos = ± 25%)

| Lab # | Micro-scpst. | Material Source | Material Condition | Stereo micro. | Sample Treat-ment | Polarized Light Microscopy | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Chr | Am | Other | Tot | Background | |
| | | | | | | % | % | % | % | Fibrous | Nonfibrous |
| 908006 | F-Rob 7/26/88 | SAN PEDRO HS. BOY'S GYM BASKETBALL COURT PIPE INSULATION | Friable | Fibrous | | 45 | 10 | crocidolite 5 | 60 | | binder |
| | | | | | | % | % | % | % | Fibrous | Nonfibrous |
| 908007 | Rowher 7/26/88 | SAN PEDRO HS BOY'S GYM BASKET BALL COURT PIPE INSULATION | " | " | | 45 | 10 | 5 | 60 | | " |
| | | | | | | % | % | % | % | Fibrous | Nonfibrous |
| 908008 | Rowher 7/26/88 | " " | " | " | | 45 | 10 | 5 | 60 | | " |
| | | | | | | % | % | % | % | Fibrous | Nonfibrous |
| 908009 | Rowher 7/26/88 | " " | " | " | | 45 | 10 | 5 | 60 | | " |
| | | | | | | % | % | % | % | Fibrous | Nonfibrous |
| 908010 | Rowher 7/26/88 | SAN PEDRO HS. BOY'S GYM Basketball Court PIPE INSULATION | " | " | | 45 | 10 | 5 | 60 | | " |
| | | | | | | % | % | % | % | Fibrous | Nonfibrous |
| 908011 | Rowher 7/26/88 | SAN PEDRO HS. BOY'S GYM BASKET BALL COURT PIPE INSULATION | " | " | | 45 | 10 | 5 | 60 | | " |

ASBESTOS SUMMARY REPORT for SCHOOL SAN PEDRO Loc. Code 8181510 Page 2 of

| ...m # | Location | Sample #'s | Material | Area(ft.2) | Condition |
|---|---|---|---|---|---|
| ...CT | MAIN GYM | 10 | PIPE INSULATION | 80 FT. | FAIR |
| ...M | FAN ROOM | 4 | " " | 60 FT. | Good |
| ...OM | BOILER ROOM SECOND FLOOR | 5 | TANK + PIPE INSUL. | 25 FT. - TANK 20 FT. - PIPE | BAD |
| ...2-5 | CLASS ROOM | 0 | OK | 0 | Good |
| ...T. | STORE ROOM Rm. 160 ELECTRIC SHOP | 6 | PIPE INSULATION | 65 FT. | Bad |
| ...T | Rm. 161 WOOD SHOP | 0 | PIPE INSULATION | 650 FT. | Bad |
| ...OOM | ATTIC Rm. 226 | 7 | PIPE INSULATION | 300 FT. | Good |
| ...TRIAL ...T | MACHINE SHOP Rm. 163 | 0 | PIPE INSULATION | 500 FT. | BAD |
| | AUTO SHOP | 8 | PIPE INSULATION | 160 FT. | Good |
| ...P | 165, 166, 168, | 0 | OK | 0 | Good |
| | | | | | |
| | | | | | |

...ted by _____ Signature _____ Date __/__/__

...one copy in Area files. Send one copy to Maintenance Branch Office. Send one copy to Safety Section (BSC, ...

Remove ASBESTOS SUMMARY REPORT for SCHOOL Sunnyvale Loc. Code 43151310 Page 2 of ___

| Building # | Location | Sample #'s | Material | Area(ft²) | Condition |
|---|---|---|---|---|---|
| Science | Class Room | 9 | asbestos | | Good? |
| 90 159 | | | | | CH 707. 11/10/ |
| | | | | | |
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Inspected by D. Feliciano Signature D. Feliciano Date 9/2083

Retain one copy in Area files. Send one copy to Maintenance Branch Office. Send one copy to Safety Section (BSC, Rm 215)

| Area # | Location | Sample #'s | Material | Area (ft²) | Condition |
|---|---|---|---|---|---|
| 3BJ | FAN ROOM | 0 | PIPE INSULLATION | 100 FT PIPE | Good |
| | UNDER-BLdg. | 0 | " " | 500 FT. PIPE | Good |
| 3BJ | ATTIC | 2 | " " | 300 FT. | Good |
| " | CAFE (LUNCH | 0 | " " | OK | Good |
| | ATTIC | 1 | PIPE INSULLATION & DEBRE ON FLOOR | OK | Good |
| | UNDER BLdg. | 0 | " " & DEBRE | 1000 FT. PIPE | BAD |
| 1BJ | MAIN BOILER ROOM | 0 | " " | 200 FT. PIPE | Good |
| " | ATTIC By Rm. 200 | 0 | " " | 800 FT. PIPE | BAD |
| SROOM T | UNDER BLdg. | 0 | PIPE INSULLATION + (DEBRE) | 800 FT. | BAD |
| | ATTIC | 0 | " " + (DEBRE) | 800 FT. | Good |
| ECT | BOILER ROOM | 3 | INSULLATION TANK / PIPE | 150 FT. / 30 FT. | BAD |
| ECT | ATTIC GIRLS P.E. | 0 | PIPE INSULLATION / DEBRE | 200 FT. | BAD |

ted by RICHARD R. FRICK Signature Richard R. Frick Date 7/13/82

one copy in Area files. Send one copy to Maintenance Branch Office. Send one copy to Safety Section (OSC, [illegible])

AREA MAINTENANCE DIRECTORS REPORT OF SITES AND BUILDINGS

MAINTENANCE AREA : A DIVISION PREFIX : A1 (ADMINISTRATIVE AREA 1 )

| L R SCHOOL NAME | ACREAGE | BUILDING I.D. | BUILDING NAME | YEAR BUILT | LEVELS | ROOMS | BUILDING SQ FT | PLAYGROUND AREA | PAVED AREA | PLANTED AREA |
|---|---|---|---|---|---|---|---|---|---|---|
| NARBONNE SH | | --10-B | STORAGE UNIT 1 | 1960 | 1 | 1 | 360 | | | |
| OF SCHOOL : 6779 | 36.03 | BLDG # 37 | | | | 305 | 228,264 | 313,740 | 628,773 | 54,366 |
| PATTON, GEORGE C | | X2052P | AA2052 | 1959 | 1 | 2 | 1,792 | | | |
| | | X2763S | AA2763 | 1974 | 1 | 6 | 1,568 | | | |
| OF SCHOOL : 6781 | .20 | BLDG # 2 | | | | 8 | 3,360 | 4,255 | 5,145 | 430 |
| SAN PEDRO SH | | --4B-J | ADMINISTRATION | 1937 | 2 | 61 | 40,937 | | | |
| | | --5B-J | CLASSROOM #1 | 1939 | 2 | 34 | 26,961 | | | |
| | | --2B-J | AUDITORIUM | 1937 | 1 | 21 | 14,251 | | | |
| | | X-830M | AA0830 | 1950 | 1 | 2 | 1,728 | | | |
| | | X-521L | AA0521 | 1949 | 1 | 2 | 1,936 | | | |
| | | X-244K | AA0244 | 1935 | 1 | 9 | 1,824 | | | |
| | | A-596N | A-0596 | 1957 | 1 | 1 | 1,056 | | | |
| | | A-595N | A-0595 | 1957 | 1 | 1 | 1,056 | | | |
| | | A-594N | A-0594 | 1957 | 1 | 1 | 1,056 | | | |
| | | -12P-K | LUNCH SHELTER | 1941 | 1 | 1 | 1,633 | | | |
| | | -15D-S | SHOP | 1971 | 2 | 20 | 14,634 | | | |
| | | --7D-N | SANITARY | 1959 | 1 | 3 | 562 | | | |
| | | --6C-J | PHYSICAL EDUCATION | 1937 | 1 | 21 | 21,935 | | | |
| | | --1C-J | INDUSTRIAL ARTS | 1937 | 1 | 18 | 17,857 | | | |
| | | --3B-J | HOME ECONOMIC | 1939 | 2 | 20 | 17,794 | | | |
| | | -10D-T | GIRLS GYM | 1960 | 1 | 8 | 5,961 | | | |
| | | -14D-P | FOOD SERVICE UNIT | 1963 | 1 | 1 | 459 | | | |
| | | -11B-M | FLAMABLE STORAGE | 1958 | 1 | 1 | 60 | | | |
| | | -13B-P | CLASSROOM #2 | 1963 | 2 | 50 | 44,993 | | | |
| | | M-462J | M-0462 | 1939 | 1 | 2 | 384 | | | |
| | | M-429H | M-0429 | 1934 | 1 | 2 | 502 | | | |
| | | J-164M | J-0164 | 1950 | 1 | 3 | 960 | | | |
| | | J-163M | J-0163 | 1950 | 1 | 3 | 912 | | | |
| | | Z-182S | BB0182 | 1973 | 2 | 4 | 3,584 | | | |
| | | X2384P | AA2384 | 1962 | 1 | 2 | 1,792 | | | |
| | | X2383P | AA2383 | 1962 | 1 | 2 | 1,792 | | | |
| | | X2082P | AA2082 | 1960 | 1 | 2 | 1,792 | | | |
| | | X1985N | AA1985 | 1960 | 1 | 2 | 2,500 | | | |
| | | X1276M | AA1276 | 1953 | 1 | 2 | 1,840 | | | |
| | | X1007M | AA1007 | 1950 | 1 | 2 | 1,728 | | | |

Inspector _____

## ASBESTOS INSPECTION: SAMPLE LOG

Keep one copy of this for Area files. Give one copy to the Safety Section.

Maint. Area 06

| SAMPLE NUMBER Loc - Bldg # - Space - # | | SCHOOL | BUILDING | DESCRIPTION | Results of Lab Test DATE | ANALYSIS |
|---|---|---|---|---|---|---|
| 91 | BOILER RM. (1) | SAN PEDRO H.S. | Home Ec. | 300 FT. PIPE INSUL | To | CH. 80 ± 20% |
| 92 | (2) | " " " | " " | " " " | STATE | AM/CH. 35 ± 8.75% |
| 93 | BOILER RM. (3) | " " " | P.E. | PIPE 175' | LAB 9/23/72 | AM/CH/CR. 64 ± 16% |
| 94 | FAN RM (4) | " " " | GIRLS GYM | 60 FT. PIPE INSUL | | AM/CH 40 ± 10% |
| 95 | BOILER RM. (5) | " " " | CLASS RM. I | 20 FT. PIPE INSUL - TANK | | AM/CH. 60 ± 15% |
| 96 | ELECTRIC RM. (6) | " " " | IND. ARTS | 65 FT. PIPE INSUL | | AM/CH/CR 70 ± 17.5% |
| 97 | RM. 236 (7) | " " " | CLASS RM. I | ROOF PIPE INSUL & DEBRIS | | CH. 45 ± 11.25% |
| 98 | AUTO (8) | " " " | AUTO SHOP | EXHAUST PIPE | | CH. 30 ± 7.5% |

SCHOOL AA Bldgs

Location Code 8181501 Maintenance Area 6

List each building and room inspected. Where asbestos is found, circle the room and indicate the condition of the material and the sample number. Use several lines if necessary. If material is damaged or easily accessible to students/staff, fill out a condition report and take samples.

| Building Name | Bldg. I.D. # | Room/Space Description | Material Description | Samples |
|---|---|---|---|---|
| AA. Bldgs. | X2383P | OK | Good | 0 |
| AA Bldgs. | X2384P | OK | Good | 0 |
| AA Bldgs. | X1307M | OK | Good | 0 |
| Home Economics | 38J | Student dining room | 75 ft. pipe insulation (Good) | 0 |

SCHOOL CAN FIELD S.H.

Location Code 51 81 5101 Maintenance Area 6

List each building and room inspected. Where asbestos is found, circle the room and indicate condition of the material and the sample number. Use several lines if necessary. If material is damaged or easily accessible to students/staff, fill out a condition report and take samples.

| Building Name | Bldg. I.D. # | Room/Space Description | Material Description | Samples |
|---|---|---|---|---|
| AUDITORIUM | 2 B-J | FAN ROOM | 100 FT. PIPE INSULL. (Good) | 0 |
| AUD. | 2 B-J | UNDER BLDG. | 600 FT PIPE INSULL. (Good) | 0 |
| HOME ECONOMICS | 3 B-J | ATTIC | 300 FT. PIPE - INSULATION Good | 2 |
| " | 3-B-J | CAFETERA / LUNCH AREA | OK (Good) | 0 |
| " | 3-B-J | ATTIC | DEBRE-ON FLOOR } PIPE INSULL. (Good) | 1 |
| " | 3-B-J | UNDER BLDG. | 1000 FT (DEBRE) PIPE INSULL (BAD) | 0 |
| ADMINISTRATION | 4 B-J | MAIN BOILER ROOM | 200 FT PIPE INSULATION (Good) | 0 |
| " | " | ATTIC by Room (200) | 600 FT. PIPE INSULL. DEBRE — (BAD) | 0 |
| CLASS ROOM I | 5 B-J | UNDER BLDG. | 800 FT. PIPE INSULL. (DEBRE) — (BAD) | 3 |
| " | " | ATTIC | 600 FT. PIPE INSULL. (DEBRE) (Good) | 3 |
| PHYSICAL EDUCATION | 6 C J | BOILER ROOM | 150 sq. FT TANK (BAD) 30 FT. PIPE INSULATION | 3 |
| " | 6 C J | ATTIC - GIRLS P.E. | 200 FT PIPE - Good DEBRE — (BAD) | 0 |
| " | " | MAIN GYM | 80 FT (FAIR) PIPE INSULL. | 0 |
| GIRLS GYM | 10 D-T | FAN ROOM | 60 FT. PIPE INSULL. (Good) | 4 |
| CLASS ROOM II | 13 D-P | BOILER ROOM SECOND FLOOR | 25 sq FT. TANK (BAD) / 200 FT PIPE (BAD) | 5 |
| CLASS ROOM | 2182-S | OK | OK | 0 |
| INDUSTRIAL ART | 1 C-J | STORE ROOM ELECTRIC SHOP (ROOM 160) | 65 PIPE INSULL. BAD | 6 |
| " | " | Rm 161 Weld SHOP | 650 FT. PIPE INSULL. (BAD) | 0 |
| CLASS ROOM I | 5 B-J | (ATTIC) ROOM 236 | 300 FT. PIPE INSULL. (DEBRE) (Good) | 7 |
| INDUST. ART | 1 C-J | MACHINE SHOP Rm. 163 | 500 FT. PIPE INSULL. (BAD) | 0 |
| " | " | AUTO SHOP | 160 FT. PIPE INSULL. (PIPE-ENGINE, 8) (Good) | 8 |
| SHOP | 15 D-S | 165 166, - 168 OK | Good | 0 |

DELTA STATIONERY & PRINTING (213) 489-2790

LOS ANGELES UNIFIED SCHOOL DISTRICT - MAINTENANCE BRANCH JOB ORDER FORM NO. 73.590 REV. (3-78)

SCHOOL NAME: SAN PEDRO High

REQUESTED BY: By Kimball / WRIGHT | EXT. | REQUESTED DATE: 7-22-82 | NEED DATE | EST. REQ. (X) YES: X NO:

No 8364037

| AREA | SCHOOL | BUILDING | LOC. | EQ. CODE | EQ. I.D. | YEAR |
|---|---|---|---|---|---|---|
| 06 | 88500 | --4B-J | | | | |

MARK ONE CAUSE (X): PM 1 | AG 2 | HS 3 | SFY 4 | VAN 5 | PRG 6 | FIR 7 | DET 8 | OTH X

MARK ONE CATEGORY (X): ST 1 | MA 2 | CM 3 | AI X | EI 5 | SB 6 | OH 7 | BM 8

| FUND | APPR. | IMA | OBJ. EXP. | PLANNED OR WRITTEN BY: | DATE | SKETCHES ATT. YES | SKETCHES ATT. NO |
|---|---|---|---|---|---|---|---|
| 010 | 4870 | | | P.L. | 7-22-82 | | |

WORK REQUESTED: Remove & BAG ALL FRIABLE ASBESTOS MATERIAL MATERIAL IN ATTIC AREAS of ADMINISTRATION, HOME ECONOMICS & CLASS ROOM BLDG #1

NOTICE REQ. YES | NO

TOTAL ESTIMATED HOURS

PLANNER USE ONLY

| EST. MAT. COST | CRAFT CODE | EFFORT CODE | STANDARD HOURS | EST. LABOR COST | CR |
|---|---|---|---|---|---|
| 2200 | 53 | 340 | | 104 | |
| | 18 | 999 | | 100 | |

APPROVED BY MAINT. / DATE: 7-22-82 | APPROVED BY OTHERS / DATE: 7/22/82 | APPROVED BY OTHERS / DATE

STOCK ACCTG. USE | APPROVED BY JOB ACCTG. / DATE | SUPERVISOR SIGNATURE | DATE CLOSED

ESTIMATED SCHEDULED HOURS

| CARP | PAINT | PLUMB | ELECT | S METAL | HEAT | C OPR | EQUIP | PAVE | FLOOR | GLASS | TILE | PLAST | ROOF | LOCK | TRDR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 53 | | | | | 16 | 42 | 15 | 41 | 08 | 04 | 54 | 48 | 18 |
| | | 6 | | | | | | | | | | | | | 8 |

| NUMBER | PRI. | DESCRIPTION | CAL-OSHA NO. | SECURITY SECTION NO. |
|---|---|---|---|---|
| 8364037 | 02 | REMOVE ASBESTOS | | |

| | | |
|---|---|---|
| TOTAL EST. LABOR | $ | 204 |
| TOTAL EST. MATERIAL | $ | 2200 |
| SUB-TOTAL | $ | 2404 |
| INDIRECT CHARGE @ 18 % | $ | 433 |
| TOTAL EST. COST | $ | 2837 |

Inspector _____

## ASBESTOS INSPECTION: SAMPLE LOG

Keep one copy of this for Area files. Give one copy to the Safety Section.

Maint. Area 06

| SAMPLE NUMBER Loc - Bldg # - Space - # | | SCHOOL | BUILDING | DESCRIPTION | Results of Lab Test DATE | ANALYSIS |
|---|---|---|---|---|---|---|
| 1 | BOILER RM. (1) | SAN PEDRO H.S. | HOME EC | 300 FT. PIPE INSUL | TO | CH. 80 ± 20% |
| 2 | (2) | " " " | " " | " " " | STATE | AM/CH. 35 ± 8.75% |
| 3 | BOILER RM. (3) | " " " | P.E. | PIPE 175' | LAB 9/25/82 | AM/CH/CR. 64 ± 16% |
| 4 | FAN RM. (4) | "010 BMP " | GIRLS GYM | 160 FT. PIPE INSUL | | AM/CH 40 ± 10% |
| 5 | BOILER RM. (5) | " " " | CLASS RM. I | 20 FT. PIPE INSUL - TANK | | AM/CH. 60 ± 15% |
| 6 | ELECTRIC RM. (6) | "013 " BCP " | IND. ARTS | 65 FT. PIPE INSUL | | AM/CH/CR 70 ± 17.5% |
| 7 | RM. 236 (7) | " " " | CLASS RM. I | WOOF PIPE INSUL & DESK'S | | CH. 45 ± 11.25% |
| 8 | AUTO (8) | "015 " DCS " | AUTO SHOP. | EXHAUST PIPE | | CH. 30 ± 7.5% |

ASBESTOS SUMMARY REPORT for SCHOOL S[illegible] PEDRO Loc. Code 8181510 2 of [illegible]

| lng # | Location | Sample #'s | Material | Area (ft²) | Condition |
|---|---|---|---|---|---|
| GCJ | MAIN GYM | 0 | PIPE INSULLATION | 80 FT. | FAIR |
| S YM | FAN ROOM | 4 | " " | 60 FT. | Good |
| ROOM | BOILER ROOM SECOND FLOOR | 5 | TANK + PIPE INSULL. | 65 FT. - TANK 20 FT. - PIPE | BAD |
| LIPS | CLASS ROOM | 0 | OK | 0 | Good |
| T | STORE ROOM Rm. 160 ELECTRIC SHOP | 6 | PIPE INSULLATION | 65 FT. | Bad |
| RT | Rm. 161 WOOD SHOP | 0 | PIPE INSULLATION | 650 FT. | Bad |
| ROOM | ATTIC Rm. 236 | 7 | PIPE INSULLATION | 300 FT. | Good |
| USTRIAL RT | MACHINE SHOP Rm. 163 | 0 | PIPE INSULLATION | 500 FT. | Bad |
| | AUTO SHOP | 8 | PIPE INSULLATION | 160 FT. | Good |
| OP | 165, 166, 168, | 0 | OK | 0 | Good |
| | | | | | |
| | | | | | |

ected by _____ Signature _____ Date __/__/__

in one copy in Area files. Send one copy to Maintenance Branch Office. Send one copy to Safety Section (SSC, [illegible]

ASBESTOS SUMMARY REPORT for SCHOOL SAN PEDRO Loc. Code 21210 Area L

| Key # | Location | Sample #'s | Material | Area (L.F.) | Condition |
|---|---|---|---|---|---|
| 2BJ | FAN ROOM | 0 | PIPE INSULLATION | 100 FT PIPE | Good |
| | UNDER-BLdg. | 0 | " " | 500 FT. PIPE | Good |
| 3BJ | ATTIC | 2 | " " | 300 FT. | good |
| " | CAFE (LUNCH | 0 | " " | OK | Good |
| | ATTIC | 1 | PIPE INSULLATION & debris from FRICK | OK | Good |
| | UNDER BLdg. | 0 | " " debris | 1000 FT. PIPE | Bad |
| 4BJ | MAIN BOILER ROOM | 0 | " " | 300 FT. PIPE | Good |
| " " | ATTIC By Rm. 200 | 0 | " " | 200 FT. PIPE | BAD |
| ROOM T. | UNDER BLdg. | 0 | PIPE INSULLATION + (DEBRE) | 800 FT. | BAD |
| | ATTIC | 0 | " " + (debre) | 200 FT. | good |
| CCJ | BOILER ROOM | 3 | INSULLATION TANK / PIPE | 150 FT. / 30 FT. | BAD |
| CJ | ATTIC GIRLS P.E. | 0 | PIPE INSULLATION / DEBRE | 200 FT. | BAD |

ted by RICHARD R. FRICK Signature Richard R Frick Date 7/13/82

one copy in Area files. Send one copy to Maintenance Branch Office. Send one copy to Safety Section (LSC, [illegible])

Removal ASBESTOS SUMMARY REPORT for SCHOOL San Pedro Loc. Code 6181510 Page 2 of

| Building # | Location | Sample #'s | Material | Area(ft²) | Condition |
|---|---|---|---|---|---|
| Science | Class Room | 9 | Asbestos | | Good? |
| 90 159 | | | | | CH 707. 11 |
| | | | | | |
| | | | | | |
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Inspected by D. Feliciano Signature D. Feliciano Date 9/2/83

Retain one copy in Area files. Send one copy to Maintenance Branch Office. Send one copy to Safety Section (BSC, Rm 215

ASBESTOS INSPECTION FORM

SCHOOL SAN PEDRO S.H.

Location Code 81.81.5101 Maintenance Area 6

List each building and room inspected. Where asbestos is found, circle the room and indicate condition of the material and the sample number. Use several lines if necessary. If material is damaged or easily accessible to students/staff, fill out a condition report and take samples.

| Building Name | Bldg. I.D. # | Room/Space Description | Material Description | Samples |
|---|---|---|---|---|
| AUDITORIUM | 2 B-J | FAN ROOM | 100 FT. PIPE INSULL. (GOOD) | 0 |
| AUD. | 2 B-J | UNDER BLDG. | 600 FT PIPE INSULL. (GOOD) | 0 |
| HOME ECONOMICS | 3 B-J | ATTIC | 300 FT. PIPE-INSULATION GOOD | 2 |
| " | 3-B-J | CAFETERIA/LUNCH AREA | OK (GOOD) | 0 |
| " | 3-B-J | ATTIC | DEBRE-ON FLOOR {PIPE INSULL. (GOOD) | 1 |
| " | 3-B-J | UNDER BLDG. | 1000 FT. (DEBRE) PIPE INSULL (BAD) | 0 |
| ADMINISTRATION | 4 E-J | MAIN BOILER ROOM | 200 FT PIPE INSULATION (GOOD) | 0 |
| " | " | ATTIC by Room (200) | 600 FT. PIPE INSULL. DEBRE — (BAD) | 0 |
| CLASS ROOM I | 5 B-J | UNDER BLDG. | 800 FT. PIPE INSULL. (DEBRE) — (BAD) | 3 |
| " | " | ATTIC | 600 FT. PIPE INSULL. (DEBRE) (GOOD) | 3 |
| PHYSICAL EDUCATION | 6 C J | BOILER ROOM | 150 SQ. FT TANK (BAD) 30 FT. PIPE INSULATION | 3 |
| " | 6 C J | ATTIC - GIRLS P.E. | 200 FT PIPE - GOOD DEBRE — (BAD) | 0 |
| " | " | MAIN GYM | 80 FT (FAIR) PIPE INSULL. | 0 |
| GIRLS GYM | 10 D-T | FAN ROOM | 60 FT. PIPE INSULL. (GOOD) | 4 |
| CLASS ROOM II | 13 D-P | BOILER ROOM SECOND FLOOR | 25 SQ FT. TANK (BAD) / 200 FT PIPE (BAD) | 5 |
| CLASS ROOM | Z 182-S | OK | OK | 0 |
| INDUSTRIAL ART | 1 C-J | STORE ROOM ELECTRIC SHOP (ROOM 160) | 65 PIPE INSULL. BAD | 6 |
| " | " | Rm 161 Weld SHOP | 650 FT. PIPE INSULL. (BAD) | 0 |
| CLASS ROOM I | 5 B-J | (ATTIC) Room 236 | 300 FT PIPE INSULL (DEBRE) (GOOD) | 7 |
| INDUST. ART | 1 C-J | MACHINE SHOP Rm. 163 | 500 FT. PIPE INSULL. (BAD) | 0 |
| " | " | AUTO SHOP | 160 FT. PIPE INSULL. (PIPE-ENGINE, 8) (GOOD) | 8 |
| SHOP | 15 D-S | 165 166 - 168 OK | GOOD | 0 |

ASBESTOS INSPECTION FORM

SCHOOL San Pedro S.H.

Location Code 61.81.5101 Maintenance Area 6

List each building and room inspected. Where asbestos is found, circle the room and indicate condition of the material and the sample number. Use several lines if necessary. If material is damaged or easily accessible to students/staff, fill out a condition report and take samples.

| Building Name | Bldg. I.D. # | Room/Space Description | Material Description | Sample |
|---|---|---|---|---|
| AUDITORIUM | 2 B-J | FAN ROOM | 100 FT. PIPE INSULL. (Good) | 0 |
| Aud. | 2 B-J | UNDER BLDG. | 600 FT PIPE INSULL. (Good) | 0 |
| HOME ECONOMICS | 3 B-J | ATTIC | 300 FT. PIPE-INSULATION Good | 2 |
| " | 3-B-J | CAFETERA / LUNCH AREA | OK (Good) | 0 |
| " | 3-B-J | ATTIC | DEBRE-ON FLOOR { PIPE INSULL. (Good) | 1 |
| " | 3-B-J | UNDER BLDG. | 1000 FT (DEBRE) PIPE INSULL. (BAD) | 0 |
| ADMINISTRATION | 4 B-J | MAIN BOILER ROOM | 200 FT PIPE INSULATION (Good) | 0 |
| " | " | ATTIC by Room(200) | 200 FT PIPE INSULL. DEBRE — (BAD) | 0 |
| CLASS ROOM I | 5 B-J | UNDER BLDG. | 800 FT. PIPE INSULL. (DEBRE) — (BAD) | 0 |
| " | " | ATTIC | 200 FT. PIPE INSULL. (DEBRE) (Good) | 0 |
| PHYSICAL EDUCATION | 6 C J | BOILER ROOM | 150 sq. FT TANK (BAD) 30 FT. PIPE INSULATION | 3 |
| " | 6 C J | ATTIC - GIRLS P.E. | 200 FT PIPE - Good DEBRE — (BAD) | 0 |
| " | " | MAIN GYM | 80 FT (FAIR) PIPE INSULL. | 0 |
| GIRLS GYM | 10 D-T | FAN ROOM | 60 FT. PIPE INSUL. (Good) | 4 |
| CLASS ROOM II | 13 D-P | BOILER ROOM SECOND FLOOR | 25 sq FT. TANK (BAD) / 200 FT PIPE (BAD) | 5 |
| CLASS ROOM | Z 182-S | OK | OK | 0 |
| INDUSTRIAL ART | 1 C-J | STORE ROOM, ELECTRIC (ROOM 160) SHOP | 65 PIPE INSULL. BAD | 6 |
| " | " | Rm 161 Weld Shop | 650 FT. PIPE INSULL. (BAD) | 0 |
| CLASS ROOM I | 5 B-J | (ATTIC) Room 236 | 300 FT. PIPE INSULL. (DEBRE) (Good) | 7 |
| INDUST. ART | 1 C-J | MACHINE SHOP Rm. 163 | 500 FT. PIPE INSULL. (BAD) | 0 |
| " | " | AUTO SHOP | 160 FT. PIPE INSULL. (PIPE-ENGINE, 8) (Good) | 8 |
| SHOP | 15 D-S | 165 [illegible] - 168 OK | Good | 0 |

SCHOOL [illegible]

Location Code 818 5101 Maintenance Area 6

List each building and room inspected. Where asbestos is found, circle the room and indicate the condition of the material and the sample number. Use several lines if necessary. If material is damaged or easily accessible to students/staff, fill out a condition report and take samples.

| Building Name | Bldg. I.D. # | Room/Space Description | Material Description | Sample |
|---|---|---|---|---|
| AA Bldg. | X2383P | OK | Good | 3 |
| AA Bldg. | X2384P | OK | Good | 3 |
| AA Bldg. | X1923A1 | OK | Good | 3 |
| Home Economics | 38J | Student dinning room | 75 FT. Pipe insulation (Good) | 0 |
| | | | | |
| | | | | |
| | | | |

| # | Location | Sample #'s | Material | Area (ft.²) | Condition |
|---|---|---|---|---|---|
| 22J | FAN ROOM | 0 | PIPE INSULLATION | 100 FT PIPE | Good |
| | UNDER-BLDG. | 0 | " " | 600 FT. PIPE | Good |
| 1BJ | ATTIC | 2 | " " | 300 FT. | Good |
| | CAFE (LUNCH | 0 | " " | OK | Good |
| | ATTIC | 1 | PIPE INSULLATION & DEBRE ON FLOOR | OK | Good |
| | UNDER BLDG. | 0 | " " & DEBRE | 1000 FT. PIPE | Bad |
| 12J | MAIN BOILER ROOM | 0 | " " | 300 FT. PIPE | Good |
| " " | ATTIC By Rm. 200 | 0 | " " | 800 FT. PIPE | BAD |
| room | UNDER BLDG. | 0 | PIPE INSULLATION + (DEBRE) | 800 FT. | BAD |
| | ATTIC | 0 | " " + (DEBRE) | 800 FT. | Good |
| CJ | BOILER ROOM | 3 | INSULLATION TANK / PIPE | 150 FT. / 30 FT. | BAD |
| CJ | ATTIC GIRLS P.E. | 0 | PIPE INSULLATION / DEBRE | 200 FT. | BAD |

ed by RICHARD R. FRICK Signature Richard R. Frick Date 7/13/82

one copy in Area files. Send one copy to Maintenance Branch Office. Send one copy to Safety Section (OSC, [illegible])

AREA MAINTENANCE DIRECTORS REPORT OF SITES AND BUILDINGS

MAINTENANCE AREA : A DIVISION PREFIX : A1 (ADMINISTRATIVE AREA 1 )

| SCHOOL NAME | ACREAGE | BUILDING I.D. | BUILDING NAME | YEAR BUILT | LEVELS | ROOMS | BUILDING SQ FT | PLAYGROUND AREA | PAVED AREA | PLANTED AREA |
|---|---|---|---|---|---|---|---|---|---|---|
| HARBONNE SH | | --1D-P | STORAGE UNIT 1 | 1980 | 1 | 1 | 360 | | | |
| OF SCHOOL : 6779 | 36.03 | BLDG = 37 | | | | 305 | 228,264 | 313,740 | 628,773 | 64,366 |
| PATTON, GEORGE C | | X2052P | AA2052 | 1959 | 1 | 2 | 1,792 | | | |
| | | X2763S | AA2760 | 1974 | 1 | 6 | 1,568 | | | |
| OF SCHOOL : 6781 | .20 | BLDG = 2 | | | | 8 | 3,360 | 4,255 | 5,145 | 430 |
| SAN PEDRO SH | | --4B-J | ADMINISTRATION | 1937 | 2 | 61 | 40,937 | | | |
| | | --5B-J | CLASSROOM #1 | 1930 | 2 | 34 | 26,961 | | | |
| | | --2B-J | AUDITORIUM | 1937 | 1 | 21 | 14,251 | | | |
| | | X-830M | AA0830 | 1950 | 1 | 2 | 1,728 | | | |
| | | X-521L | AA0521 | 1949 | 1 | 2 | 1,936 | | | |
| | | X-244K | AA0244 | 1935 | 1 | 9 | 1,824 | | | |
| | | A-596N | A-0596 | 1957 | 1 | 1 | 1,056 | | | |
| | | A-595N | A-0595 | 1957 | 1 | 1 | 1,056 | | | |
| | | A-594N | A-0594 | 1957 | 1 | 1 | 1,056 | | | |
| | | -12P-K | LUNCH SHELTER | 1941 | 1 | 1 | 1,633 | | | |
| | | -15D-S | SHOP | 1971 | 2 | 20 | 14,634 | | | |
| | | --7D-N | SANITARY | 1959 | 1 | 3 | 562 | | | |
| | | --6C-J | PHYSICAL EDUCATION | 1937 | 1 | 21 | 21,935 | | | |
| | | --1C-J | INDUSTRIAL ARTS | 1937 | 1 | 18 | 17,857 | | | |
| | | --3B-J | HOME ECONOMIC | 1939 | 2 | 20 | 17,794 | | | |
| | | -10D-T | GIRLS GYM | 1960 | 1 | 8 | 5,961 | | | |
| | | -14D-P | FOOD SERVICE UNIT | 1963 | 1 | 1 | 459 | | | |
| | | -11B-M | FLAMABLE STORAGE | 1953 | 1 | 1 | 60 | | | |
| | | -13B-P | CLASSROOM #2 | 1963 | 2 | 50 | 44,993 | | | |
| | | M-462J | M-0462 | 1939 | 1 | 2 | 364 | | | |
| | | M-429H | M-0429 | 1934 | 1 | 2 | 502 | | | |
| | | J-164M | J-0164 | 1950 | 1 | 3 | 960 | | | |
| | | J-163M | J-0163 | 1950 | 1 | 3 | 912 | | | |
| | | Z-182S | BB0182 | 1973 | 2 | 4 | 3,564 | | | |
| | | X2384P | AA2384 | 1962 | 1 | 2 | 1,792 | | | |
| | | X2383P | AA2383 | 1962 | 1 | 2 | 1,792 | | | |
| | | X2082P | AA2082 | 1960 | 1 | 2 | 1,792 | | | |
| | | X1985N | AA1985 | 1960 | 1 | 2 | 2,500 | | | |
| | | X1276M | AA1276 | 1953 | 1 | 2 | 1,840 | | | |
| | | X1007M | AA1007 | 1950 | 1 | 2 | 1,728 | | | |

SCHOOL [illegible]

Location Code 8 1 8 1 5 1 0 1 Maintenance Area 6

List each building and room inspected. Where asbestos is found, circle the room and indicate condition of the material and the sample number. Use several lines if necessary. If material is damaged or easily accessible to students/staff, fill out a condition report and take samples.

| Building Name | Bldg. I.D. # | Room/Space Description | Material Description | Sample |
|---|---|---|---|---|
| AA Bldg. | X 2383 P | OK | Good | 1 |
| AA Bldg. | X 2384 P | OK | Good | 2 |
| AA Bldg. | X 1357 M | OK | Good | 3 |
| Home Economics | 38 J | Student dining room | 75 FT. Pipe insulation (Good) | 4 |
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Emerson ASBESTOS SUMMARY REPORT for SCHOOL Jan Mateo Loc. Code 41815/0 Page 2 of ___

| uilding # | Location | Sample #'s | Material | Area(ft²) | Condition |
|---|---|---|---|---|---|
| Science | Class Room | 9 | asbestos | | Good? |
| 90 159 | | | | | CH 70% 11/10/ |
| | | | | | |
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nspected by D. Feldman Signature D. Feldman Date 9/23/83

etain one copy in Area files. Send one copy to Maintenance Branch Office. Send one copy to Safety Section (BSC, Rm 215)

ASBESTOS SUMMARY REPORT for SCHOOL SAN PEDRO Loc. Code 818510 Pg. 1 of

| ID | Location | Sample #'s | Material | Area(ft.2) | Condition |
|---|---|---|---|---|---|
| CJ | MAIN GYM | 10 | PIPE INSULATION | 80 FT. | FAIR |
| 111 | FAN ROOM | 4 | " " | 60 FT. | Good |
| ROM | BOILER ROOM SECOND FLOOR | 5 | TANK + PIPE INSUL. | 25 FT. - TANK 20 FT. - PIPE | BAD |
| 22-5 | CLASS ROOM | 0 | OK | 0 | Good |
| | STORE ROOM Rm. 160 ELECTRIC SHOP | 6 | PIPE INSULATION | 65 FT. | Bad |
| T | Rm. 161 WOOD SHOP | 0 | PIPE INSULATION | 650 FT. | Bad |
| OOM | ATTIC Rm. 226 | 7 | PIPE INSULATION | 300 FT. | Good |
| RIAL T | MACHINE SHOP Rm. 163 | 0 | PIPE INSULATION | 500 FT. | Bad |
| | AUTO SHOP | 8 | PIPE INSULATION | 160 FT. | Good |
| D | 165, 166, 168, | 0 | OK | 0 | Good |
| | | | | | |
| | | | | | |

ed by _____ Signature _____ Date 1/1

one copy in Area files. Send one copy to Maintenance Branch Office. Send one copy to Safety Section (BSC, [illegible])

ASBESTOS BULK SAMPLE LOG.

SITE: SAN PEDRO H.S.
LOC. CODE 8850

TAKEN BY: J. TYSON
DATE: 7-11-88
AREA: 06

Fill in all information Legibly and Precisely. DO NOT USE PENCIL
One copy for Area files (if applicable), one copy to Safety with samples, original to Technical Supervisor.

| Sample # | Lab Sample# | Building | Room/Area | Location in Rm/Ar | Application | Condition | Notes |
|---|---|---|---|---|---|---|---|
| 1 | 908006 | BOYS' GYM | BASKETBALL COURT | CENTERLINE PIPE NORTH END | PIPE INSULATION | FAIR | |
| 2 | 908007 | BOYS' GYM | BASKETBALL COURT | CENTERLINE PIPE MIDDLE | PIPE INSULATION | FAIR | |
| 3 | 908008 | BOYS' GYM | BASKETBALL COURT | CENTERLINE PIPE SOUTH END | PIPE INSULATION | FAIR | |
| 4 | 908009 | BOYS' GYM | BASKETBALL COURT | WEST SIDE PIPE NORTH END | PIPE INSULATION | FAIR | RED TINT |
| 5 | 908010 | BOYS' GYM | BASKETBALL COURT | WEST SIDE PIPE SOUTH END | PIPE INSULATION | FAIR | |
| 6 | 908011 | BOYS' GYM | BASKETBALL COURT | WEST SIDE PIPE SOUTH ELBOW | PIPE INSULATION | FAIR | BOTTOM, NEAR FLOOR |

NOTE: Analysis report to be attached to this sheet and returned to Asbestos Technical Supervisor

AUSD
afety Sect
213) 742-7371

ROUTINE RE FORM
ASBESTOS BULK S E ANALYSIS
(POLARIZED LIGHT MICROSCOPY/EPA-600/M4-82-020 DEC 1982)
(Note: Standard statistical error: 0-10% asbestos = ± 50%; = 11% asbestos = ± 25%)

| Lab # | Micro-scpst. | Material Source | Material Condition | Stereo micro. | Sample Treat-ment | Polarized Light Microscopy | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Chr | Am | Other | Tot | Background | |
| | | | | | | % | % | % | % | Fibrous | Nonfibrous |
| 908006 | F. Rob 7/26/88 | SAN Pedro HS. BOY'S GYM BASKETBALL COURT PIPE INSULATION | Friable | Fibrous | | 45 | 10 | crocid olite 5 | 60 | | binder |
| | | | | | | % | % | % | % | Fibrous | Nonfibrous |
| 908007 | Rowhan 7/26/88 | SAN PEDRO HS. BOY'S GYM BASKET BALL COURT PIPE INSULATION | " | " | | 45 | 10 | 5 | 60 | | " |
| | | | | | | % | % | % | % | Fibrous | Nonfibrous |
| 908008 | Rochan 7/26/88 | " " | " | " | | 45 | 10 | 5 | 60 | | " |
| | | | | | | % | % | % | % | Fibrous | Nonfibrous |
| 908009 | Roch 7/26/88 | " " | " | " | | 45 | 10 | 5 | 60 | | " |
| | | | | | | % | % | % | % | Fibrous | Nonfibrous |
| 908010 | Roch 7/26/88 | SAN Pedro HS. BOY'S GYM Basketball Court PIPE INSULATION | " | " | | 45 | 10 | 5 | 60 | | " |
| | | | | | | % | % | % | % | Fibrous | Nonfibrous |
| 908011 | Rowh 7/26/88 | SAN Pedro HS. BOY'S GYM BASKET BALL COURT PIPE INSULATION | " | " | | 45 | 10 | 5 | 60 | | " |

✓ Rec'd 6-19-91

ASBESTOS BULK SAMPLE LOG. SITE: SAN PEDRO H.S. 8850 TAKEN BY: J. TYSON DATE: 6-17-91 AREA: 06 PROJECT: REPAIR BAD PLASTER, ENGLISH BLDG.

Fill in all information Legibly and Precisely. DO NOT USE PENCIL
One copy for Area files (if applicable), one copy to Technical Supervisor, original to Safety with samples.

| Sample # | Lab Sample# | Building | Room/Area | Location in Rm/Ar | Application | Condition | Notes |
|---|---|---|---|---|---|---|---|
| 1 | 934363 | --5B-J CLASSROOM # ONE | 1ST FLOOR HALL, EAST | UNDERSIDE OF STAIR TO 2ND FLOOR | SAND FINISH PLASTER | DAMAGED | SCRATCH COAT |
| 2 | 934364 | --5B-J CLASSROOM # ONE | 1ST FLOOR HALL, EAST | UNDERSIDE OF STAIR TO 2ND FLOOR | SAND FINISH PLASTER | DAMAGED | FINISH COAT, SAME LOCATION AS #1 |
| 3 | 934365 | --5B-J CLASSROOM # ONE | 1ST FLOOR HALL, EAST | UNDERSIDE OF STAIR TO 2ND FLOOR | SAND FINISH PLASTER | DAMAGED | SCRATCH COAT |
| 4 | 934366 | --5B-J CLASSROOM # ONE | 1ST FLOOR HALL, EAST | UNDERSIDE OF STAIR TO 2ND FLOOR | SAND FINISH PLASTER | DAMAGED | FINISH COAT, SAME LOCATION AS #3 |
| 5 | 934367 | --5B-J CLASSROOM # ONE | 1ST FLOOR HALL, EAST | UNDERSIDE OF STAIR TO 2ND FLOOR | SAND FINISH PLASTER | DAMAGED | FINISH COAT, SAME LOCATION AS #6 |
| 6 | 934368 | --5B-J CLASSROOM # ONE | 1ST FLOOR HALL, EAST | UNDER SIDE OF STAIR TO 2ND FLOOR | SAND FINISH PLASTER | DAMAGED | SCRATCH COAT |

NOTE: Analysis report to be attached to this sheet and returned to Asbestos Technical Supervisor

L.A.U.S.D.
Employee Safety Section
1425 S. San Pedro St. Rm. 215
Los Angeles CA 90015
(213) 742-7371

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP # 1505



| LAUSD Lab # | Date Submitted | Mic pst | Date Analyzed | Material Source | Material Description | Chr % | Am % | Oth % | Tot % | Material Background |
|---|---|---|---|---|---|---|---|---|---|---|
| 934363 | 06/19/91 | PUG | 06/20/91 | 5B-J, CLASS RM #1, 1ST FLOOR, PLASTER | BEIGE, NON-FRIABLE, GRANULAR W/PAINT, CEMENTITIOUS MAT | 0 | 0 | 0 | 0 | CELLULOSE 1%, TALC, BINDER, QUARTZ |
| 934364 | 06/19/91 | PUG | 06/20/91 | 5B-J, CLASS RM #1, 1ST FLOOR, PLASTER | BEIGE, NON-FRIABLE, GRANULAR W/PAINT, CEMENTITIOUS MAT | 0 | 0 | 0 | 0 | CELLULOSE 1%, TALC, QUARTZ, CALCITE, BINDER |
| 934365 | 06/19/91 | PUG | 06/20/91 | 5B-J, CLASS RM #1, 1ST FLOOR, PLASTER | BEIGE, NON-FRIABLE, GRANULAR W/PAINT, CEMENTITIOUS MAT | 0 | 0 | 0 | 0 | TALC, QUARTZ, CALCITE |
| 934366 | 06/19/91 | PUG | 06/20/91 | 5B-J, CLASS RM #1, 1ST FLOOR, PLASTER | BEIGE, NON-FRIABLE, GRANULAR W/PAINT, CEMENTITIOUS MAT | 0 | 0 | 0 | 0 | TALC, QUARTZ, BINDER |
| 934367 | 06/19/91 | PUG | 06/20/91 | 5B-J, CLASS RM #1, 1ST FLOOR, PLASTER | BEIGE, NON-FRIABLE, GRANULAR W/PAINT, CEMENTITIOUS MAT | 0 | 0 | 0 | 0 | CELLULOSE 1%, BINDER QUARTZ, TALC |
| 368 | 06/19/91 | PUG | 06/20/91 | 5B-J, CLASS RM #1, 1ST FLOOR, PLASTER | BEIGE, NON-FRIABLE, GRANULAR W/PAINT, CEMENTITIOUS MAT | 0 | 0 | 0 | 0 | CELLULOSE 2%, BINDER QUARTZ, TALC |

Signature of Lab Supervisor: Jeff Frall

Signature of Analyst: Pauline M. Gurzon

NOTE: 0% : No Asbestos Detected; 1% : Asbestos Detected Above 0% and Below or Equal to 1%.

ASBESTOS BULK SAMPLE LOG.

SITE: SAN PEDRO SR

PROJECT: AMERA

TAKEN BY: M GUINAN

DATE: 10-8-91

MAINT. AREA: 19

Fill in all information Legibly and Precisely. DO NOT USE PENCIL
One copy for Area files (if applicable), one copy to Technical Supervisor, original to Safety with samples.

| Sample # | Lab Sample # | Building | Room/Area | Location in Rm/Ar | Application | Condition | Notes |
|---|---|---|---|---|---|---|---|
| 50-1 | 936252 | INDUSTRIAL ARTS | AUTO SHOP | ON EXHAUST STACKS | INSULATION | FRIABLE | NOT TO GRID |
| 2 | 936253 | | | | | | |
| 3 | 936254 | | | | | | |
| 4 | 936255 | HOME ECONOMICS | STOORM DINING RM | ON RISERS | INSULATION | FRIABLE | |
| 5 | 936256 | | | | | | |
| 6 | 936257 | | | | | | |
| 7 | 936258 | MAIN ADMINISTRATION | ROOM 1 | IN DARK ROOM ON RISER | | | |
| 8 | 936259 | | | | | | |
| 9 | 936260 | | | | | | |
| 10 | 936261 | | DEAN'S OFFICE | ON RISERS | | | |
| 11 | 936262 | | | | | | |
| 12 | 936263 | | | | | | |

NOTE: Analysis report to be attached to this sheet and returned to Asbestos Technical Supervisor

L.A.U.S.D.
Employee Safety Section
1425 S. San Pedro St. Rm. 215
Los Angeles CA 90015
3) 742-7371

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP # 1505



| LAUSD Lab # | Date Submitted | Mic pst | Date Analyzed | Material Source | Material Description | Chr % | Am % | Oth % | Tot % | Material Background |
|---|---|---|---|---|---|---|---|---|---|---|
| 936252 | 10/14/91 | NI | 10/14/91 | IND ARTS, AUTO SHOP EXHAUST INSUL. | DIRTY WHITE, CHALKY, SOFT, FRBL, COATED, HMGNS. | 5 | 0 | 0 | 5 | BINDER, TALC |
| 936253 | 10/14/91 | NI | 10/14/91 | IND ARTS, AUTO SHOP EXHAUST INSUL. | DIRTY WHITE, CHALKY, SOFT, FRBL, COATED, HMGNS. | 10 | 0 | 0 | 10 | BINDER, TALC |
| 936254 | 10/14/91 | NI | 10/14/91 | IND ARTS, AUTO SHOP EXHAUST INSUL. | DIRTY WHITE, CHALKY, SOFT, FRBL, COATED, HMGNS. | 10 | 0 | 0 | 10 | BINDER, TALC |
| 936255 | 10/14/91 | NI | 10/14/91 | HOME ECON, STUDENT DINRM, INSUL. | DIRTY WHITE, CHALKY, SOFT, FRBL, HMGNS. | 5 | 12 | 0 | 17 | BINDER, TALC |
| 936256 | 10/14/91 | NI | 10/14/91 | HOME ECON, STUDENT DINRM, INSUL. | DIRTY WHITE, CHALKY, SOFT, FRBL, HMGNS. | 8 | 15 | 0 | 23 | CELLULOSE 1% BINDER, TALC |
| 936257 | 10/14/91 | NI | 10/14/91 | HOME ECON, STUDENT DINRM, INSUL. | DIRTY WHITE, CHALKY, SOFT, FRBL, HMGNS. | 10 | 10 | 0 | 20 | CELLULOSE, BINDER, TALC |
| 936258 | 10/14/91 | NI | 10/14/91 | ADMIN, RM 1, DARK RM INSULATION | DIRTY WHITE, CHALKY, COATED, FRBL, HMGNS. | 0 | 15 | 0 | 15 | CELLULOSE 2% BINDER, TALC |
| 936259 | 10/14/91 | NI | 10/14/91 | ADMIN, RM 1, DARK RM INSULATION | DIRTY WHITE, CHALKY, COATED, FRBL, HMGNS. | 0 | 15 | 0 | 15 | BINDER, TALC |
| 936260 | 10/14/91 | NI | 10/14/91 | ADMIN, RM 1, DARK RM INSULATION | DIRTY WHITE, CHALKY, COATED, FRBL, HMGNS. | 0 | 15 | 0 | 15 | BINDER, TALC |
| 936261 | 10/14/91 | NI | 10/14/91 | ADMIN, DEAN'S OFFICE INSULATION | DIRTY WHITE, CHALKY, COATED, HMGNS. | 5 | 10 | 0 | 15 | CELLULOSE 2% BINDER, TALC |
| 936262 | 10/14/91 | NI | 10/14/91 | ADMIN, DEAN'S OFFICE INSULATION | DIRTY WHITE, CHALKY, COATED, HMGNS. | 0 | 10 | 0 | 10 | BINDER, TALC |

Signature of Lab Supervisor: Jeff Troll

Signature of Analyst: Judy L. Lear

NOTE: 0% : No Asbestos Detected; 1% : Asbestos Detected Above 0% and Below or Equal to 1%.

L.A.U.S.D.
Employee Safety Section
1425 S. San Pedro St. Rm. 215
Los Angeles CA 90015
(213) 742-7371

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP # 1505



| LAUSD Lab # | Date Submitted | Mic pst | Date Analyzed | Material Source | Material Description | Chr % | Am % | Oth % | Tot % | Material Background |
|---|---|---|---|---|---|---|---|---|---|---|
| 936263 | 10/14/91 | NI | 10/14/91 | ADMIN, DEAN'S OFFICE INSULATION | DIRTY WHITE, CHALKY, COATED, HMGNS. | 5 | 8 | 0 | 13 | BINDER, TALC |

Signature of Lab Supervisor: Debby Fratt

Signature of Analyst: Holly L Isaac

NOTE: 0% : No Asbestos Detected; 1% : Asbestos Detected Above 0% and Below or Equal to 1%.

ASE[illegible]OS BULK SAMPLE LOG.

SITE: SANTEURO JR.
PROJECT: AHERA

TAKEN BY: M OCHOA
DATE: 10-10-91
MAINT. AREA: 19

R-6C
10-14-91

Fill in all information Legibly and Precisely. DO NOT USE PENCIL
One copy for Area files (if applicable), one copy to Technical Supervisor, original to Safety with samples.

| Sample # | Lab Sample# | Building | Room/Area | Location in Rm/Ar | Application | Condition | Notes |
|---|---|---|---|---|---|---|---|
| '529-1 | 936323 | --5BOJ | HALL WAY | SOUTH WALL BY RM 228 | SAND PLASTER WALL | | |
| '529-2 | 936324 | | RM 236 | NORTH WALL BY EAST DOOR | | | |
| '529-3 | 936325 | | RM 229 | EAST WALL | | | |
| '529-4 | 936326 | | RM 225 | WEST WALL | | | |
| '529-5 | 936327 | | HALLWAY | SOUTH WALL ACROSS FROM STAIRS | | | |
| '529-6 | 936328 | | Rm 124 | WEST WALL | | | |
| '529-7 | 936329 | | Rm 123 | NORTH WALL | | | |

NOTE: Analysis report to be attached to this sheet and returned to Asbestos Technical Supervisor

L.A U.S.D.
Employee Safety Section
1425 S. San Pedro St. Rm. 215
Los Angeles CA 90015
(213) 742-7371

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP # 1505



| LAUSD Lab # | Date Submitted | Mic pst | Date Analyzed | Material Source | Material Description | Chr % | Am % | Oth % | Tot % | Material Background |
|---|---|---|---|---|---|---|---|---|---|---|
| 936323 | 10/14/91 | PUG | 10/17/91 | 5BOJ HALLWAY RM. 228 SAND PLASTER WALL | GREY/YELLOW CEMENT W/PAINT NON-FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 1% BINDER QUARTZ TALC |
| 936324 | 10/14/91 | PUG | 10/17/91 | 5BOJ N/WALL RM. 236 SAND PLASTER WALL | GREY/BLUE CEMENT W/PAINT NON-FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 1% BINDER QUARTZ TALC CALCITE |
| 936325 | 10/14/91 | PUG | 10/17/91 | 5BOJ E/WALL RM. 229 SAND PLASTER WALL | BEIGE CEMENT W/PAINT NON-FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 1% BINDER QUARTZ TALC CALCITE |
| 936326 | 10/14/91 | PUG | 10/17/91 | 5BOJ W/WALL RM. 225 SAND PLASTER WALL | BEIGE CEMENT GRANULAR NON-FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 10% BINDER QUARTZ TALC CALCITE |
| 936327 | 10/14/91 | PUG | 10/17/91 | 5BOJ S/WALL SAND PLASTER WALL | GREY/YELLOW CEMENT W/PAINT NON-FRIABLE | 0 | 0 | 0 | 0 | BINDER QUARTZ TALC |
| 936328 | 10/14/91 | | 10/17/91 | 5BOJ S/WALL SAND PLASTER WALL | GREY/YELLOW CEMENT W/PAINT NON-FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 5% BINDER QUARTZ TALC |
| 936329 | 10/14/91 | PUG | 10/17/91 | 5BOJ N/WALL RM. 123 SAND PLASTER WALL | BEIGE CEMENT GRANULAR NON-FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 5% BINDER TALC QUARTZ CALCITE |

Signature of Lab Supervisor: Jeffy Frall

Signature of Analyst: Denise M. Garza

NOTE: 0% : No Asbestos Detected; 1% : Asbestos Detected Above 0% and Below or Equal to 1%.

L.A.U.S.D.
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Los Angeles CA 90015
(213) 742-7371

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP # 1505



| LAUSD Lab # | Date Submitted | Mic pst | Date Analyzed | Material Source | Material Description | Chr % | Am % | Oth % | Tot % | Material Background |
|---|---|---|---|---|---|---|---|---|---|---|
| 934207 | 06/11/91 | PUG ENT | 06/11/91 | 6C-J BLDG, BOY'S GYM WEIGHT RM, PLASTER | BEIGE/BLACK, NON-FRIABLE, GRANULAR W/ PAINT | 0 | 0 | 0 | 0 | CELLULOSE 2%, TALC, CALCITE, BINDER, VERMICULITE |
| 934208 | 06/11/91 | PUG ENT | 06/11/91 | 6C-J BLDG, BOY'S GYM WEIGHT RM, PLASTER | BEIGE/YELLOW, NON-FRIABLE, GRANULAR W/ PAINT | 0 | 0 | 0 | 0 | CELLULOSE 1%, TALC, CALCITE, QUARTZ, GLASS POWDER |
| 934209 | 06/11/91 | PUG ENT | 06/11/91 | 6C-J BLDG, BOY'S GYM WEIGHT RM, PLASTER | BEIGE/YELLOW, NON-FRIABLE, GRANULAR W/ PAINT | 0 | 0 | 0 | 0 | CELLULOSE 1%, TALC, QUARTZ, BINDER, GLASS POWDER |

Signature of Lab Supervisor: K. Pauline Hidalgo

Signature of Analyst: Ellie Tomudge / Pauline Marzan

NOTE: 0% : No Asbestos Detected; 1% : Asbestos Detected Above 0% and Below or Equal to 1%.

ASBESTOS BULK SAMPLE LOG.

SITE: San Pedro Sr.
PROJECT: AHERA

TAKEN BY: P. Montgomery
DATE: 4-14-92
MAINT. AREA: 19

ll in all information Legibly and Precisely. DO NOT USE PENCIL
e copy for Area files (if applicable), one copy to Technical Supervisor, original to Safety with samples.

| mple # | Lab Sample# | Building | Room/Area | Location in Rm/Ar | Application | Condition | Notes |
|---|---|---|---|---|---|---|---|
| 1 | 940906 | 2B-J | FOYER | N.E. AREA | Acoustical Plaster Ceiling | NON-FRIABLE | |
| 2 | 940907 | | | W. MID. | | | |
| 3 | 940908 | | | S. MID. | | | |
| 4 | 940909 | | | S.E. AREA | | | |
| 5 | 940910 | | | S.W. AREA | | | |

)TE: Analysis report to be attached to this sheet and returned to Asbestos Technical Supervisor

L.A.U.S.D.
Environmental Health and Safety Branch
1425 S. San Pedro St. Rm. 215
Los Angeles CA 90015
213) 742-7371

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP # 1505



| LAUSD Lab # | Date Submitted | Mic pst | Date Analyzed | Material Source | Material Description | Chr % | Am % | Oth % | Tot % | Material Background |
|---|---|---|---|---|---|---|---|---|---|---|
| 940906 | 04/14/92 | ET NI | 04/25/92 | 2B-J BLDG FOYER CEILING PLASTER | BGE GREY PINK SOLID W/PAINT NON-FRIABLE NON-HOMOGENEOUS | 1 | 0 | 0 | 1 | CELLULOSE 1% CALCITE QUARTZ BINDER TALC |
| 940907 | 04/14/92 | ET NI | 04/25/92 | 2B-J BLDG FOYER CEILING PLASTER | BGE GREY PINK SOLID W/PAINT NON-FRIABLE NON-HOMOGENEOUS GRN | 1 | 0 | 0 | 1 | CELLULOSE 1% CALCITE QUARTZ BINDER TALC |
| 940908 | 04/14/92 | ET NI | 04/25/92 | 2B-J BLDG FOYER CEILING PLASTER | BGE GREY PINK SOLID W/PAINT NON-FRIABLE NON-HOMOGENEOUS | 2 | 0 | 0 | 2 | CELLULOSE 1% CALCITE QUARTZ BINDER TALC |
| 940909 | 04/14/92 | ET NI | 04/25/92 | 2B-J BLDG FOYER CEILING PLASTER | BGE GREY PINK SOLID W/PAINT NON-FRIABLE NON-HOMOGENEOUS | 2 | 0 | 0 | 2 | CELLULOSE 1% CALCITE QUARTZ BINDER TALC |
| 940910 | 04/14/92 | ET NI | 04/25/92 | 2B-J BLDG FOYER CEILING PLASTER | BGE GREY PINK SOLID W/PAINT NON-FRIABLE NON-HOMOGENEOUS | 3 | 0 | 0 | 3 | CELLULOSE 1% CALCITE QUARTZ BINDER TALC |

Signature of Lab Supervisor: Jeffy Frank Signature of Analyst: Nelly L Lara Elsie Talledge

NOTE: 0% : No Asbestos Detected; 1% : Asbestos Detected Above 0% and Below or Equal to 1%.
This report relates to only the material used.
This report is not used by the LAUSD/EHSB to claim product endorsement by NVLAP or any agency of the U.S. government.

CHAIN OF CUSTODY

| CUSTODIAN PRINT | CUSTODIAN SIGNATURE | ORGANIZATION OR LAB | DATE | TIME | SAMPLES |
|---|---|---|---|---|---|
| D. Montgomery | D. Montgomery | ATC 19 | 4.14.92 | 0800 | 5 |
| Lee Zimmerman | Lee Zimmerman | EHS. Asbestos Lab | 4/14/92 | 8:00 am. | 5 |

ASBESTOS BULK SAMPLE LOG. SITE: SAN Pedro Hi
PROJECT:

TAKEN BY: Rm. DONOVAN
DATE: 6/2/93
MAINT. AREA: 10

Fill in all information Legibly and Precisely. DO NOT USE PENCIL
One copy for Area files (if applicable), one copy to Technical Supervisor, original to Safety with samples.

need 6/7/93

| Sample # | Lab Sample# | Building | Room/Area | Location in Rm/Ar | Application | Condition | Notes |
|---|---|---|---|---|---|---|---|
| 1 | 949533 | Industrial -ICJ AYTS | Lower Level | North EAST End | Roof/Rock | N.F | RANdom Sample |
| 2 | 949534 | | Lower Level | CAP sheet Sawtooth middle | | | |
| 3 | 949535 | | Lower Level | North End | | | |
| 4 | 949536 | | Lower Level | EAST End Kick sheet | Roof Rock Kick Sheet | | |
| 5 | 949537 | | Upper Level | north EAST End | Roof Rock | | |
| 6 | 949538 | | Upper Level | middle west End | " " | | |
| 7 | 949539 | | Upper Level | Kick Sheet Sath EAST End | Roof Rock Kick Sheet | | |
| 8 | 949540 | | north west Upper Level | middle west End | Roof /Rock | | |
| 9 | 949541 | | (Upper Level) (NORTH WEST) | middle EAST End | " " | | |
| 10 | 949542 | | ~~North West~~ Upper Level | Kick Sheet EAST End | Roof/Rock Kick Sheet | | |
| 11 | 949543 | Shop Bldg -150-S | Shops | Sath end | Roof / Rock | | |
| 12 | 949544 | | | middle area | | | |
| 13 | 949545 | | | North West End | | | |
| 14 | 949546 | | | Wall Sheet Kicker Sath EAST End | Roof /Rock Kick Sheet | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

NOTE: Analysis, report to be attached to this sheet and returned to Asbestos Technical Supervisor

Shop = Slag Rock
Industrial Arts = Pea gravel
" = Slag Rock Newer Addition

L.A.U.S.D.
Environmental Health and Safety Branch
1425 S. San Pedro St. Rm. 215
Los Angeles CA 90015
(213) 742-7371

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850



| LAUSD Lab # | Date Submitted | Hic pst | Date Analyzed | Material Source | Material Description | Chr % | Am % | Oth % | Tot % | Material Background |
|---|---|---|---|---|---|---|---|---|---|---|
| 949533 | 06/02/93 | RPC | 06/11/93 | INDSTRL ARTS/1C-J LWR LEVEL ROOF ROCK | NON-HOMOGENEOUS, MULTI-LAYER TAR-LIKE BLACK, NON-FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 30%, TAR, QUARTZ |
| 949534 | 06/02/93 | RPC | 06/11/93 | INDSTRL ARTS/1C-J LWR LEVEL ROOF ROCK | NON-HOMOGENEOUS, MULTI-LAYER TAR-LIKE BLACK, NON-FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 20%, TAR, QUARTZ |
| 949535 | 06/02/93 | RPC PG | 06/11/93 | INDSTRL ARTS/1C-J LWR LEVEL ROOF ROCK | NON-HOMOGENEOUS, MULTI-LAYER TAR-LIKE BLACK, NON-FRIABLE | 10 | 0 | 0 | 10 | CELLULOSE 20%, TAR, QUARTZ |
| 949536 | 06/02/93 | RPC | 06/11/93 | INDSTRL ARTS/1C-J LWR LEVEL KICK SHEET | NON-HOMOGEN MULTI-LYR TAR-LIKE BLK W/ WHITE FBRS NON-FRBL | 25 | 0 | 0 | 25 | CELLULOSE 15%, TAR, |
| 949537 | 06/02/93 | RPC | 06/11/93 | INDSTRL ARTS/1C-J UPR LEVEL ROOF ROCK | NON-HOMOGEN MULTI-LYR TAR-LIKE BLACK NON-FRIABLE MATERIAL | 0 | 0 | 0 | 0 | CELLULOSE 20%, TAR, QUARTZ |
| 949538 | 06/02/93 | RPC | 06/11/93 | INDSTRL ARTS/1C-J UPR LEVEL ROOF ROCK | NON-HOMOGEN MULTI-LYR TAR-LIKE BLACK NON-FRIABLE MATERIAL | 0 | 0 | 0 | 0 | CELLULOSE 5%, TAR, QUARTZ |
| 949539 | 06/02/93 | RPC | 06/11/93 | INDSTRL ARTS/1C-J UPR LEVEL KICK SHEET | NON-HOMOGEN MULTI-LYR TAR-LIKE BLACK NON-FRIABLE MATERIAL | 15 | 0 | 0 | 15 | CELLULOSE 15%, TAR, QUARTZ |
| 949540 | 06/02/93 | RPC | 06/11/93 | INDSTRL ARTS/1C-J UPR LEVEL KICK SHEET | NON-HOMOGEN MULTI-LYR TAR-LIKE BLACK NON-FRIABLE MATERIAL | 0 | 0 | 0 | 0 | CELLULOSE 30%, TAR, QUARTZ |
| 949541 | 06/02/93 | RPC | 06/11/93 | INDSTRL ARTS/1C-J UPR LEVEL ROOF ROCK | NON-HOMOGEN MULTI-LYR TAR-LIKE BLACK NON-FRIABLE MATERIAL | 0 | 0 | 0 | 0 | CELLULOSE 20%, TAR, QUARTZ |
| 949542 | 06/02/93 | RPC | 06/11/93 | INDSTRL ARTS/1C-J UPR LEVEL KICK SHEET | NON-HOMOGEN MULTI-LYR TAR-LIKE BLACK NON-FRIABLE MATERIAL | 20 | 0 | 0 | 20 | CELLULOSE 20%, TAR, QUARTZ |
| 949543 | 06/02/93 | RPC | 06/11/93 | SHOP BLDG, 15D-S SHOPS ROCK ROOF | NON-HOMOGEN MULTI-LYR TAR-LIKE BLACK NON-FRIABLE MATERIAL | 0 | 0 | 0 | 0 | CELLULOSE 30%, TAR, QUARTZ |

Signature of Lab Supervisor: Jolly Franklin Signature of Analyst: Lourdes A. Corcuera Pauline M. Barzon

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|---|---|---|---|---|---|---|---|---|---|---|
| 949544 | 06/02/93 | RPC | 06/11/93 | SHOP BLDG, 15D-S SHOPS ROCK ROOF | NON-HOMOGEN MULTI-LYR TAR-LIKE BLACK NON-FRIABLE MATERIAL | 0 | 0 | 0 | 0 | CELLULOSE 15%, TAR, QUARTZ |
| 949545 | 06/02/93 | RPC | 06/11/93 | SHOP BLDG, 15D-S SHOPS ROOF ROCK | NON-HOMOGEN MULTI-LYR TAR-LIKE BLACK NON-FRIABLE MATERIAL | 0 | 0 | 0 | 0 | CELLULOSE 40%, TAR, QUARTZ |
| 949546 | 06/02/93 | RPC | 06/11/93 | SHOP BLDG, 15D-S SHOPS KICK SHEET | NON-HOMOGEN MULTI-LYR TAR-LIKE BLACK NON-FRIABLE MATERIAL | 10 | 0 | 0 | 10 | CELLULOSE 5%, TAR, QUARTZ |

Signature of Lab Supervisor: Jeff Farrell Signature of Analyst: Rosalba Covarrubias

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PROJECT: REPAIR ACTiles in Gym

DATE: 07-06-93

MAINT. AREA: DIST. 07

Fill in all information Legibly and Precisely. DO NOT USE PENCIL

One copy for Area files (if applicable), one copy to Technical Supervisor, original to Safety with samples.

Rec'd: ML 7-7-93

| Sample # | Lab Sample# | Building | Room/Area | Location in Rm/Ar | Application | Condition | Notes |
|---|---|---|---|---|---|---|---|
| 1 | 950400 | 006CBJ | BASKET BALL COURT | S.WEST CEILING | 12"X24" ACTile | OLD + DRY | NAILED TO ROOF SHEATHING |
| 2 | 950401 | 006 CBJ | BASKETBALL COURT | S.WEST CEILING | 12"X24" ACTiles | OLD + DRY | NAILED TO ROOF SHEATHING |
| 3 | 950402 | 006CBJ | BASKETBALL COURT | NORTH MIDDLE CEILING | 12"X24" ACTiles | OLD + DRY | NAILED TO ROOF SHEATHING |
| 4 | 950403 | 006 CBJ | BASKETBALL COURT | S. EAST CEILING | 12"X24" ACTiles | OLD + DRY | NAILED TO ROOF SHEATHING |
| 5 | 950404 | 006CBJ | BASKETBALL COURT | S. EAST CEILING | 12"X24" ACTiles | OLD + DRY | NAILED TO ROOF SHEATHING |
| 6 | 950405 | 006 CBJ | BASKETBALL COURT | N EAST CEILING | 12"X24" ACTiles | OLD + DRY | NAILED TO ROOF SHEATHING |
| 7 | 950406 | 006 CBJ | BASKETBALL COURT | N. WEST CEILING | 12"X24" ACTiles | OLD + DRY | NAILED TO ROOF SHEATHING |

NOTE: Analysis report to be attached to this sheet and returned to Asbestos Technical Supervisor

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Los Angeles CA 90015
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ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850



| LAUSD Lab # | Date Submitted | Mic pst | Date Analyzed | Material Source | Material Description | Chr % | Am % | Oth % | Tot % | Material Background |
|---|---|---|---|---|---|---|---|---|---|---|
| 950400 | 07/07/93 | LPH | 07/16/93 | BLD 006CBJ, BSKBL CT, SW, CEILING TILE | NON-HOMO, BRN, WT, BOARD-LK W/ PAINT, FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 80%, PAINT, BINDER |
| 950401 | 07/07/93 | LPH | 07/16/93 | BLD 006CBJ, BSKBL CT, SW, CEILING TILE | NON-HOMO, BRN, WT, BOARD-LK W/ PAINT, FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 80%, PAINT, BINDER |
| 950402 | 07/07/93 | LPH | 07/16/93 | BLD 006CBJ, BSKBL CT, N, CEILING TILE | NON-HOMO, BRN, WT, BOARD-LK W/ PAINT, FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 80%, PAINT, BINDER |
| 950403 | 07/07/93 | LPH | 07/16/93 | BLD 006CBJ, BSKBL CT, SE, CEILING TILE | NON-HOMO, BRN, WT, BOARD-LK W/ PAINT, FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 80%, PAINT, BINDER |
| 950404 | 07/07/93 | LPH | 07/16/93 | BLD 006CBJ, BSKBL CT, SE, CEILING TILE | NON-HOMO, BRN, WT, BOARD-LK W/ PAINT, FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 80%, PAINT, BINDER |
| 50405 | 07/07/93 | LPH | 07/16/93 | BLD 006CBJ, BSKBL CT, NE, CEILING TILE | NON-HOMO, BRN, WT, BOARD-LK W/ PAINT, FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 80%, PAINT, BINDER |
| 950406 | 07/07/93 | LPH | 07/16/93 | BLD 006CBJ, BSKBL CT, NW, CEILING TILE | NON-HOMO, BRN, WT, BOARD-LK W/ PAINT, FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 80%, PAINT, BINDER |

Signature of Lab Supervisor: Signature of Analyst: L. Patty Hidalgo

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# ASBESTOS BULK SAMPLE LOG.

SITE: SAN PEDRO H.S. (8850)
PROJECT: REPAIR FLOOR FINISH

SAMPLED BY: ANDY M. GUEVARRA
DATE SAMPLED: 07-14-94
M & O DISTRICT: 07

Fill in all information Legibly and Precisely. DO NOT USE PENCIL.
Top (blue) copy to EHSB lab with samples, second (white) copy to ATU, third (yellow) copy to inspector.

Lab rcvd ✓ 7/19/94 9:45 AM

| Sample # | Lab Sample# | Building | Room/Area | Location in Rm/Ar | Application | Condition | Notes |
|---|---|---|---|---|---|---|---|
| 1 | 956943 | 005BCJ | MAIN HALL 2nd FLOOR | IN FRONT OF Rm. 231 | BATTLESHIP LINOLEUM | FAIR | MAROON MASTIPAVE |
| 2 | 956944 | ↓ | ↓ | IN FRONT OF GIRLS R/R | ↓ | ↓ | ↓ |
| 3 | 956945 | ↓ | ↓ | IN FRONT OF BOYS R/R | ↓ | ↓ | ↓ |

NOTE: Original analysis summary report to be sent to Asbestos Technical Supervisor.
(Rev 9/93)

WHITE COPY: TO ATU.

CTL ENVIRONMENTAL SERVICES • 2905 E. Century Blvd. • South Gate, CA 90280 • (213) 564-2642

# POLARIZED LIGHT MICROSCOPY SUMMARY REPORT

CLIENT : L.A. Unified School District, 1425 S. San Pedro, LA, CA 90015

Client Project# : Location: San Pedro HS

CTL Lab# : 109670 CTL Project # : SG94LAU999

*Analytical Method:* *EPA/600/R-93/116, July 1993*

| Client Sample # / CTL sample # | Sample Remarks Or Description | Total Asbestos % | Asbestos Type(s) present |
|---|---|---|---|
| 956943 / 94-33401 | 005BCJ, main hall 2nd fl., front of rm. 231, battleship lin. | Not detected | ---------- |
| 956944 / 94-33402 | 005BCJ, main hall 2nd fl., front of girls r/r, battleship lin. | Not detected | ---------- |
| 956945 / 94-33403 | 005BCJ, main hall 2nd fl., front boys r/r, battleship lin. | Not detected | ---------- |

Supervisor Signature: Cristina Tabatt Review Date: 8/22/94

Analyst GZS Date Analyzed: 8/9/94

*When a sample is "layered", the Total Asbestos % represents the composite percentage of all sample layers. If the asbestos percentage of an individual layer is required, the detailed lab report should be referenced, or the layer should be reanalyzed as a separate sample. Samples reported as Not detected, or less than 1% (<1%), are non-asbestos containing according to PLM method definitions.*

*This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar material or products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these Laboratories.*

ESTOS BULK SAMPLE LOG. SITE: San Pedro High
PROJECT: Reroof

SAMPLED BY: Hueso
DATE SAMPLED: 8/25/94
M & O DISTRICT: 10 - Roofing

Fill in all information Legibly and Precisely. DO NOT USE PENCIL.
Top (blue) copy to EHSB lab with samples, second (white) copy to ATU, third (yellow) copy to inspector.

Rec'd 8/26/94 LP

| Sample # | Lab Sample# | Building | Room/Area | Location in Rm/Ar | Application | Condition | Notes |
|---|---|---|---|---|---|---|---|
| 1 | 957755 | Home Economics | ROOF | North wall kicksheet | Smooth sheet | Poor | |
| 2 | 957756 | | | West wall kicksheet | | | |
| 3 | 957757 | | | South wall kicksheet | | | |
| 4 | 957758 | | | West | gravel | | |
| 5 | 957759 | | | South | | | |
| 6 | 957760 | | | East | | | |
| 7 | 957761 | | | South lower deck (center) | cap | | |
| 8 | 957762 | | | South lower deck (east) | | | |
| 9 | 957763 | | | South lower deck (west) | | | |
| 10 | 957764 | Shop | | South wall/kicksheet | Smooth sheet | | |
| 11 | 957765 | | | East wall/kicksheet | | | |
| 12 | 957766 | | | North wall/kicksheet | | | |
| 13 | 957767 | | | East | slag | | |
| 14 | 957768 | | | Center | | | |
| 15 | 957769 | | | West | | | |

NOTE: Original analysis summary report to be sent to Asbestos Technical Supervisor.
(Rev 9/93)

WHITE COPY: TO ATU.

L.A.U.S.D.
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Los Angeles CA 90015
3) 742-7371

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850


METHOD EPA/600/R-93/116 (MOD) JULY 1993

| LAUSD Lab # | Date Submitted | Mic pst | Date Analyzed | Material Source | Material Description | Chr % | Am % | Oth % | Tot % | Material Background |
|---|---|---|---|---|---|---|---|---|---|---|
| 957755 | 08/26/94 | MLI | 09/12/94 | HOME ECONOMICS, ROOF KICKSHEET SMOOTH,NO. | NON-HOMOGENEOUS, COATED, YELLOWISH NON-FRIABLE | 25 | 0 | 0 | 25 | CELLULOSE 1%, QUARTZ CALCITE, TAR |
| 957756 | 08/26/94 | MLI | 09/12/94 | HOME ECONOMICS, ROOF KICKSHEET SMOOTH,NO. | NON-HOMOGENEOUS, COATED, YELLOWISH NON-FRIABLE | 25 | 0 | 0 | 25 | QUARTZ, CALCITE TAR |
| 957757 | 08/26/94 | MLI | 09/12/94 | HOME ECONOMICS, ROOF KICKSHEET SMOOTH,SO. | NON-HOMOGENEOUS, COATED, YELLOWISH NON-FRIABLE | 10 | 0 | 0 | 10 | QUARTZ, CALCITE TAR, CELLULOSE 5% |
| 957758 | 08/26/94 | MLI | 09/12/94 | HOME ECONOMICS, ROOF GRAVEL, WEST | NON-HOMOGENEOUS, W/ROCKS, YELLOWISH NON-FRIABLE | 0 | 0 | 0 | 0 | QUARTZ, CALCITE TAR, CELLULOSE 20% |
| 957759 | 08/26/94 | MLI | 09/12/94 | HOME ECONOMICS, ROOF GRAVEL, SOUTH | NON-HOMOGENEOUS, W/ROCKS, BLACK NON-FRIABLE | 0 | 0 | 0 | 0 | QUARTZ, CALCITE TAR, CELLULOSE 20% |
| 7760 | 08/26/94 | MLI | 09/12/94 | HOME ECONOMICS, ROOF GRAVEL, EAST | NON-HOMOGENEOUS, W/ROCKS, NON-FRIABLE BLACK | 0 | 0 | 0 | 0 | CELLULOSE 20%, TAR QUARTZ, CALCITE |
| 957761 | 08/26/94 | MLI | 09/12/94 | HOME ECONOMICS, ROOF CAP, S. LOWER DECK | NON-HOMOGENEOUS, W/SAND, NON-FRIABLE BLACK | 15 | 0 | 0 | 15 | CELLULOSE 20%, TAR QUARTZ, CALCITE |
| 957762 | 08/26/94 | MLI | 09/12/94 | HOME ECONOMICS, ROOF CAP, S. LOWER DECK | NON-HOMOGENEOUS, W/SAND, NON-FRIABLE BLACK | 0 | 0 | 0 | 0 | CELLULOSE 20%, TAR QUARTZ, CALCITE FIBERGLASS 15% |
| 957763 | 08/26/94 | MLI | 09/12/94 | HOME ECONOMICS, ROOF CAP, S. LOWER DECK | NON-HOMOGENEOUS, W/SAND, NON-FRIABLE BLACK | 15 | 0 | 0 | 15 | CELLULOSE 20%, TAR QUARTZ, CALCITE |
| 957764 | 08/26/94 | MLI | 09/12/94 | SHOP, KICKSHEET,ROOF SMOOTHSHEET, S.WALL | NON-HOMOGENEOUS, COATED, NON-FRIABLE BLACK | 10 | 0 | 0 | 10 | CELLULOSE 10%, TAR QUARTZ, CALCITE FIBERGLASS 10% |
| 957765 | 08/26/94 | MLI | 09/12/94 | SHOP, KICKSHEET,ROOF SMOOTHSHEET, E.WALL | NON-HOMOGENEOUS, COATED, NON-FRIABLE BLACK | 20 | 0 | 0 | 20 | CELLULOSE 15%, TAR QUARTZ, CALCITE FIBERGLASS 05% |

Signature of Lab Supervisor: Dellrose Bryant Signature of Analyst: Molly L. Dean

TE: 0% : No Asbestos Detected; < 1% : Asbestos Detected Above 0% and Below 1%.
"Quantitation done by optical estimate" 1 - 5% considered non-quantifiable.
This report relates to only the material tested.
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L.A.U.S.D.
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ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850


METHOD EPA/600/R-93/116 (EOD) JULY 1993

| LAUSD Lab # | Date Submitted | Nic pst | Date Analyzed | Material Source | Material Description | Chr % | Am % | Oth % | Tot % | Material Background |
|---|---|---|---|---|---|---|---|---|---|---|
| 957766 | 08/26/94 | NLI | 09/12/94 | SHOP, KICKSHEET,ROOF SMOOTHSHEET, N.WALL | NON-HOMOGENEOUS, COATED, NON-FRIABLE BLACK | 5 | 0 | 0 | 5 | CELLULOSE 03%, TAR QUARTZ, CALCITE FIBERGLASS 05% |
| 957767 | 08/26/94 | NLI | 09/12/94 | SHOP, SLAG, ROOF EAST | NON-HOMOGENEOUS, LUMPY, NON-FRIABLE BLACK | 0 | 0 | 0 | 0 | CELLULOSE 30%, TAR |
| 957768 | 08/26/94 | NLI | 09/12/94 | SHOP, SLAG, ROOF CENTER | NON-HOMOGENEOUS, LUMPY, NON-FRIABLE BLACK | 0 | 0 | 0 | 0 | CELLULOSE 25%, TAR QUARTZ |
| 957769 | 08/26/94 | NLI | 09/12/94 | SHOP, SLAG, ROOF WEST | NON-HOMOGENEOUS, LUMPY, NON-FRIABLE BLACK | 0 | 0 | 0 | 0 | CELLULOSE 35%, TAR |

Signature of Lab Supervisor: Dechanne Bryant Signature of Analyst: Molly L Doane

NOTE: 0% : No Asbestos Detected; 1% : Asbestos Detected Above 0% and Below or Equal to 1%.
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L.A.U.S.D.
Environmental Health and Safety Branch
1425 S. San Pedro St. Rm. 215
Los Angeles CA 90015
(213) 742-7371

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850



9P 6/10/94

| LAUSD Lab # | Date Submitted | Mic pst | Date Analyzed | Material Source | Material Description | Chr % | Am % | Oth % | Tot % | Material Background |
|---|---|---|---|---|---|---|---|---|---|---|
| 955982 | 05/25/94 | RPC | 05/31/94 | 5B-J RM 230 E. PLATFORM LINOL MASTIC | NON-HOMOGENEOUS, LT BROWN, SOLID, NON-FRIABLE MATERIAL | 0 | 0 | 0 | 0 | CELLULOSE 3%, QUARTZ BINDER |
| 955983 | 05/25/94 | RPC | 05/31/94 | 5B-J RM 230 E. PLATFORM LINOL MASTIC | NON-HOMOGENEOUS, LT BROWN, SOLID, NON-FRIABLE MATERIAL | 0 | 0 | 0 | 0 | CELLULOSE 3%, QUARTZ BINDER |
| 955984 | 05/25/94 | RPC | 05/31/94 | 5B-J RM 230 N/W PLAT FORM LINOL MASTIC | NON-HOMOGENEOUS, LT BROWN, SOLID, NON-FRIABLE MATERIAL | 0 | 0 | 0 | 0 | CELLULOSE 3%, QUARTZ BINDER |

Signature of Lab Supervisor: _____ Signature of Analyst: _____

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ASBESTOS BULK SAMPLE LOG.

SITE: San Pedro - IKI
PROJECT: Reroof

SAMPLED BY: Green Jr
DATE SAMPLED: 8/25/94
M & O DISTRICT: 10 - ROOFING

Fill in all information Legibly and Precisely. DO NOT USE PENCIL.
Top (blue) copy to EHSB lab with samples, second (white) copy to ATU, third (yellow) copy to inspector.

Rec'd 8/26/94

| Sample # | Lab Sample# | Building | Room/Area | Location in Rm/Ar | Application | Condition | Notes |
|---|---|---|---|---|---|---|---|
| 16 | 957770 | INDUSTRIAL ARTS | ROOF | North kickSheet | SMOOTH SHEET | POOR | |
| 17 | 957771 | ↓ | ↓ | East kicksheet | ↓ | ↓ | |
| 18 | 957772 | ↓ | ↓ | SKYLIGHT KICKSheet | ↓ | ↓ | |
| 19 | 957773 | ↓ | ↓ | CENTER SLOPE EAST | CAP SHEET | ↓ | 2 LAYERS |
| 20 | 957774 | ↓ | ↓ | CENTER SLOPE CENTER | ↓ | ↓ | ↓ |
| 21 | 957775 | ↓ | ↓ | CENTER SLOPE WEST | ↓ | ↓ | ↓ |
| 22 | 957776 | ↓ | ↓ | NORTH | GRAVEL | ↓ | |
| 23 | 957777 | ↓ | ↓ | CENTER | ↓ | ↓ | |
| 24 | 957778 | ↓ | ↓ | UPPER SOUTH | ↓ | ↓ | |

NOTE: Original analysis summary report to be sent to Asbestos Technical Supervisor.
(Rev 9/93)

WHITE COPY: TO ATU.

L.A.U.S.D.
Environmental Health and Safety Branch
1425 S. San Pedro St. Rm. 215
Los Angeles CA 90015
(213) 742-7371

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850


METHOD EPA/600/R-93/116 (MOD) JULY 1993

| LAUSD Lab # | Date Submitted | Mic pst | Date Analyzed | Material Source | Material Description | Chr % | Am % | Oth % | Tot % | Material Background |
|---|---|---|---|---|---|---|---|---|---|---|
| 957770 | 08/26/94 | CH NLI | 09/13/94 | INDUSTRIAL ARTS, ROOF, N, KICKSHEET | NON-HOMOG, TAR-LIKE, BLACK, NON-FRIABLE | 25 | 0 | 0 | 25 | CELLULOSE 5%, BINDER, CALCITE |
| 957771 | 08/26/94 | CH | 09/13/94 | INDUSTRIAL ARTS, ROOF, E, KICKSHEET | NON-HOMOG, TAR-LIKE, BLACK, NON-FRIABLE | 25 | 0 | 0 | 25 | CELLULOSE 5%, BINDER, CALCITE |
| 957772 | 08/26/94 | CH | 09/13/94 | INDUSTRIAL ARTS, ROOF, KICKSHEET | NON-HOMOG, TAR-LIKE, BLACK, NON-FRIABLE | 25 | 0 | 0 | 25 | CELLULOSE 5%, BINDER, CALCITE |
| 957773 | 08/26/94 | CH | 09/13/94 | INDUSTRIAL ARTS, ROOF, CTR, CAPSHEET | NON-HOMOG, TAR-LIKE, BLACK, LAYERED, NON-FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 20%, BINDER, CALCITE |
| 957774 | 08/26/94 | CH | 09/13/94 | INDUSTRIAL ARTS, ROOF, CTR, CAPSHEET | NON-HOMOG, TAR-LIKE, BLACK, LAYERED, NON-FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 30%, BINDER, CALCITE |
| 957775 | 08/26/94 | CH | 09/13/94 | INDUSTRIAL ARTS, ROOF, CTR, CAPSHEET | NON-HOMOG, TAR-LIKE, BLACK, LAYERED, NON-FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 30%, BINDER, CALCITE |
| 957776 | 08/26/94 | CH | 09/13/94 | INDUSTRIAL ARTS, ROOF, N, GRAVEL | NON-HOMOG, TAR-LIKE, BLACK, LAYERED, NON-FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 30%, BINDER, CALCITE |
| 957777 | 08/26/94 | CH | 09/13/94 | INDUSTRIAL ARTS, ROOF, C, GRAVEL | NON-HOMOG, TAR-LIKE, BLACK, LAYERED, NON-FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 30%, BINDER, CALCITE |
| 957778 | 08/26/94 | CH | 09/13/94 | INDUSTRIAL ARTS, ROOF, C, GRAVEL | NON-HOMOG, TAR-LIKE, BLACK, LAYERED, NON-FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 30%, BINDER, CALCITE |

Signature of Lab Supervisor: Deelinne Bryant Signature of Analyst: C Harrison

NOTE: 0% : No Asbestos Detected; 1% : Asbestos Detected Above 0% and Below or Equal to 1%.
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ASBESTOS BULK SAMPLE LOG.

SITE: SAN PEDRO HIGH SCHOOL
PROJECT: GIRLS WIEGHT ROOM

SAMPLED BY: J. DUTTER
DATE SAMPLED: 10-11-94
M & O DISTRICT: 07

Fill in all information Legibly and Precisely. DO NOT USE PENCIL.
Top (blue) copy to EHSB lab with samples, second (white) copy to ATU, third (yellow) copy to inspector.

| Sample # | Lab Sample# | Building | Room/Area | Location in Rm/Ar | Application | Condition | Notes |
|---|---|---|---|---|---|---|---|
| 885001 | 959139 | L-6C-J | WIEGHT ROOM | EAST DOORWAY | 9"x9" FLOOR TILE (BEIGE) | BROKEN, & CRUMBELING | WATER DAMAGED APPROX 75% OF ROOM |
| 885002 | 959140 | L-6C-J | | N/W CENTER OF ROOM | ↓ | ↓ | ↓ |
| 885003 | 959141 | L-6C-J | ↓ | S/W CENTER OF ROOM | ↓ | ↓ | ↓ |

NOTE: Original analysis summary report to be sent to Asbestos Technical Supervisor.
(Rev 9/93)

WHITE COPY: TO ATU.

L.A.U.S.D.
Environmental Health and Safety Branch
1425 S. San Pedro St. Rm. 215
Los Angeles CA 90015
213) 742-7371

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850


METHOD EPA/600/R-93/116 (EOD) JULY 1993

| LAUSD Lab # | Date Submitted | Mic pst | Date Analyzed | Material Source | Material Description | Chr % | Am % | Oth % | Tot % | Material Background |
|---|---|---|---|---|---|---|---|---|---|---|
| 959139A | 10/12/94 | NLI | 10/31/94 | 6C-J, WEIGHT ROOM, E.DOORWAY, FLOOR TILE | HOMOGENEOUS, VINYL, BEIGE, NON-FRIABLE | 3 | 0 | 0 | 3 | 5% CELLULOSE, QUARTZ, CALCITE, TAR, BINDER |
| 959139B | 10/12/94 | NLI | 10/31/94 | 6C-J, WEIGHT ROOM, E.DOORWAY, MASTIC | HOMOGENEOUS, TARRY, BLACK, NON-FRIABLE | 2 | 0 | 0 | 2 | 5% CELLULOSE, QUARTZ, CALCITE, TAR, BINDER |
| 959140A | 10/12/94 | NLI | 10/31/94 | 6C-J, WEIGHT ROOM, N/W CTR., FLOOR TILE | HOMOGENEOUS, VINYL BEIGE, NON-FRIABLE | 5 | 0 | 0 | 5 | 2% CELLULOSE, QUARTZ, CALCITE, TAR, BINDER |
| 959140B | 10/12/94 | NLI | 10/31/94 | 6C-J, WEIGHT ROOM, N/W CTR., MASTIC | HOMOGENEOUS, TARRY, BLACK, NON-FRIABLE | 1 | 0 | 0 | 1 | 2% CELLULOSE, QUARTZ, CALCITE, TAR, BINDER |
| 959141A | 10/12/94 | NLI | 10/31/94 | 6C-J, WEIGHT ROOM, S/W CTR., FLOOR TILE | HOMOGENEOUS, VINYL, BEIGE, NON-FRIABLE | 3 | 0 | 0 | 3 | 1% CELLULOSE, QUARTZ, CALCITE, TAR, BINDER |
| 959141B | 10/12/94 | NLI | 10/31/94 | 6C-J, WEIGHT ROOM, S/W CTR., MASTIC | HOMOGENEOUS, TARRY, BLACK, NON-FRIABLE | 1 | 0 | 0 | 1 | 1% CELLULOSE, QUARTZ, CALCITE, TAR, BINDER |

Signature of Lab Supervisor: Dulinae Bryant Signature of Analyst: Holly L. Dean

NOTE: 0% : No Asbestos Detected; 1% : Asbestos Detected Above 0% and Below or Equal to 1%.
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1425 S. San Pedro St. Rm. 215
Los Angeles CA 90015
213) 742-7371

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850



| LAUSD Lab # | Date Submitted | Mic pst | Date Analyzed | Material Source | Material Description | Chr % | Am % | Oth % | Tot % | Material Background |
|---|---|---|---|---|---|---|---|---|---|---|
| 950400 | 07/07/93 | LPH | 07/16/93 | BLD 006CBJ, BSKBL CT, SW, CEILING TILE | NON-HOMO, BRN, WT, BOARD-LK W/ PAINT, FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 80%, PAINT, BINDER |
| 950401 | 07/07/93 | LPH | 07/16/93 | BLD 006CBJ, BSKBL CT, SW, CEILING TILE | NON-HOMO, BRN, WT, BOARD-LK W/ PAINT, FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 80%, PAINT, BINDER |
| 950402 | 07/07/93 | LPH | 07/16/93 | BLD 006CBJ, BSKBL CT, N, CEILING TILE | NON-HOMO, BRN, WT, BOARD-LK W/ PAINT, FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 80%, PAINT, BINDER |
| 950403 | 07/07/93 | LPH | 07/16/93 | BLD 006CBJ, BSKBL CT, SE, CEILING TILE | NON-HOMO, BRN, WT, BOARD-LK W/ PAINT, FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 80%, PAINT, BINDER |
| 950404 | 07/07/93 | LPH | 07/16/93 | BLD 006CBJ, BSKBL CT, SE, CEILING TILE | NON-HOMO, BRN, WT, BOARD-LK W/ PAINT, FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 80%, PAINT, BINDER |
| 50405 | 07/07/93 | LPH | 07/16/93 | BLD 006CBJ, BSKBL CT, NE, CEILING TILE | NON-HOMO, BRN, WT, BOARD-LK W/ PAINT, FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 80%, PAINT, BINDER |
| 950406 | 07/07/93 | LPH | 07/16/93 | BLD 006CBJ, BSKBL CT, NW, CEILING TILE | NON-HOMO, BRN, WT, BOARD-LK W/ PAINT, FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE 80%, PAINT, BINDER |

Signature of Lab Supervisor: Jeff Ivanell Signature of Analyst: Patty Hidalgo

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FEMA

**ESTOS BULK SAMPLE LOG.**

SITE: SAN PEDRO SR.
PROJECT: TEMA

SAMPLED BY: PAUL MS
DATE SAMPLED: 12 12 [illegible]
M & O DISTRICT: ATU 19

Fill in all information Legibly and Precisely. DO NOT USE PENCIL.
Top (blue) copy to EHSB lab with samples, second (white) copy to ATU, third (yellow) copy to inspector.

| Sample # | Lab Sample# | Building | Room/Area | Location in Rm/Ar | Application | Condition | Notes |
|---|---|---|---|---|---|---|---|
| 1 | 962906 | 13B-P | Exterior | North wall | Stucco | Non friable | |
| 2 | 962907 | 13B-P | ↓ | East wall | ↓ | ↓ | |
| 3 | 962908 | 10D-P | ↓ | North wall | ↓ | | |
| 4 | 962909 | | North | North wall | [illegible] wall | | |
| 5 | 962910 | | F Boys R/R | South wall | | | |
| 6 | 962911 | | [illegible] Storage | [illegible] | | | |
| 7 | 962912 | | ~~Family~~ Girls Rm. R/R | West wall | | | |
| 8 | 962913 | ↓ | Fan Room | Ceiling | ↓ | | |
| 9 | 962914 | 4BCJ | Exterior | Middle/East | Stucco | | |
| 10 | 962915 | 5BOJ | ↓ | Middle/South | ↓ | | NEGATIVE BY POINT COUNT ON 6-16-01 |
| 11 | 962916 | 1-10J | ↓ | Middle/West | ↓ | ↓ | |
| 12 | 962917 | 2182S | B-3 | East wall | Dry wall walls | Non friable | |
| 13 | 962918 | ↓ | B-4 | ↓ | ↓ | ↓ | ~~With tape & mud~~ |
| 14 | 962919 | ↓ | B-5 | ↓ | ↓ | ↓ | ~~With tape & mud~~ |

NOTE: Original analysis summary report to be sent to Asbestos Technical Supervisor.
(Rev 9/93)

WHITE COPY: TO ATU.

L.A.U.S.D.
Environmental Health and Safety Branch
1425 S. San Pedro St. Rm. 215
Los Angeles CA 90015
213) 742-7371

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850


METHOD EPA/600/R-93/116 (HOD) JULY 1993

| LAUSD Lab # | Date Submitted | Eic pst | Date Analyzed | Material Source | Material Description | Chr % | Am % | Oth % | Tot % | Material Background |
|---|---|---|---|---|---|---|---|---|---|---|
| 962906 | 12/13/94 | CH | 12/29/94 | 12B-P, EXTERIOR WALL NORTH, STUCCO | NON-HOMOG, BEIGE/PCH CEMENTITIOUS W/PAINT NON-FRIABLE | <1 | 0 | 0 | <1 | CALCITE, QUARTZ |
| 962907 | 12/13/94 | CH | 12/29/94 | 12B-P, EXTERIOR WALL EAST, STUCCO | NON-HOMOG, BEIGE/PCH CEMENTITIOUS W/PAINT NON-FRIABLE | <1 | 0 | 0 | <1 | CALCITE, QUARTZ |
| 962908 | 12/13/94 | CH | 12/29/94 | 10D-P, EXTERIOR WALL NORTH, STUCCO | NON-HOMOG, BEIGE/PCH CEMENTITIOUS W/PAINT NON-FRIABLE | 0 | 0 | 0 | 0 | CALCITE, QUARTZ |
| 962909 | 12/13/94 | CH | 12/29/94 | 10D-P, GIRLS WERB, NORTH WALL, PLASTER | NON-HOMOG, BEIGE/PCH CEMENTITIOUS W/PAINT NON-FRIABLE | 0 | 0 | 0 | 0 | CALCITE, QUARTZ |
| 962910 | 12/13/94 | CH | 12/29/94 | 10D-P, BOYS R/R, SOUTH WALL, PLASTER | NON-HOMOG, BEIGE/PCH CEMENTITIOUS W/PAINT NON-FRIABLE | 0 | 0 | 0 | 0 | CALCITE, QUARTZ |
| 962911 | 12/13/94 | CH | 12/29/94 | 10D-P,BSKTBL STORAGE N/E WALL, PLASTER | NON-HOMOG, BEIGE, CEMENTITIOUS, NON-FRIABLE | 0 | 0 | 0 | 0 | CALCITE, QUARTZ |
| 962912 | 12/13/94 | CH | 12/29/94 | 10D-P, GIRLS R/R, WEST WALL, PLASTER | NON-HOMOG, BEIGE, CEMENTITIOUS, NON-FRIABLE | 0 | 0 | 0 | 0 | CALCITE, QUARTZ |
| 962913 | 12/13/94 | CH | 12/29/94 | 10D-P, FAN ROOM, NORTH WALL, PLASTER | NON-HOMOG, BEIGE, CEMENTITIOUS, NON-FRIABLE | 0 | 0 | 0 | 0 | CALCITE, QUARTZ |
| 962914 | 12/13/94 | CH | 12/29/94 | 4BOJ, EXTERIOR, MIDDLE/EAST, STUCCO | NON-HOMOG, BEIGE, PAINT CHIPS, NON-FRIABLE | 1 | 0 | 0 | 1 | CALCITE, PAINT, BINDER |
| 962915 | 12/13/94 | CH | 12/29/94 | 5BOJ, EXTERIOR, MIDDLE/SOUTH, STUCCO | NON-HOMOG, BEIGE, PAINT CHIPS, NON-FRIABLE | <1 | 0 | 0 | <1 | CALCITE, PAINT, BINDER |
| 962916 | 12/13/94 | CH | 12/29/94 | 6COJ, EXTERIOR, MIDDLE/WEST, STUCCO | NON-HOMOG, BEIGE, PAINT CHIPS, NON-FRIABLE | <1 | 0 | 0 | <1 | CALCITE, PAINT, BINDER |

NEGATIVE BY POINT COUNT ON 6-16-01

Signature of Lab Supervisor: Delinne Bryant Signature of Analyst:

NOTE: 0% : No Asbestos Detected; < 1% : Asbestos Detected Above 0% and Below 1%.
"Quantitation done by optical estimate" 1 - 5% considered non-quantifiable.
This report relates to only the material tested.
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L.A.U.S.D.
Environmental Health and Safety Branch
1425 S. San Pedro St. Rm. 215
Los Angeles CA 90015
(213) 742-7371

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850


METHOD EPA/600/R-93/116 (MOD) JULY 1993

| LAUSD Lab # | Date Submitted | Mic pst | Date Analyzed | Material Source | Material Description | Chr % | Am % | Oth % | Tot % | Material Background |
|---|---|---|---|---|---|---|---|---|---|---|
| 962917 | 12/13/94 | CH | 12/29/94 | Z-182, B-3, EAST/WALL, DRYWALL | NON-HOMOG,WHT/BEIGE, CHALKY W/PAPER, NON-FRIABLE | 0 | 0 | 0 | 0 | 12% CELLULOSE, GYPSUM |
| 962918 | 12/13/94 | CH | 12/29/94 | Z-182, B-4, EAST/WALL, DRYWALL | NON-HOMOG,WHT/ORANG/ BRN, CHALKY W/PAPER NON-FRIABLE | 0 | 0 | 0 | 0 | 10% CELLULOSE, GYPSUM |
| 962919 | 12/13/94 | CH | 12/29/94 | Z-182, B-5, EAST/WALL, DRYWALL | NON-HOMOG,WHT/BROWN, CHALKY W/PAPER NON-FRIABLE | 0 | 0 | 0 | 0 | 10% CELLULOSE, GYPSUM |

Signature of Lab Supervisor: Duchanne Bryant Signature of Analyst: A Harrison

NOTE: 0% : No Asbestos Detected; 1% : Asbestos Detected Above 0% and Below or Equal to 1%.
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**ESTOS BULK SAMPLE LOG.**

SITE: SAN PEDRO CR.
PROJECT: — FEMA —

SAMPLED BY: D. McKENNEY
DATE SAMPLED: 12.13.94
M & O DISTRICT: — 14 —

Fill in all information Legibly and Precisely. DO NOT USE PENCIL.
Top (blue) copy to EHSB lab with samples, second (white) copy to ATU, third (yellow) copy to inspector.

| Sample # | Lab Sample# | Building | Room/Area | Location in Rm/Ar | Application | Condition | Notes |
|---|---|---|---|---|---|---|---|
| 15 | 963328 | Z-1825 | EXTERIOR | NORTH middle | STUCCO | NON FRIABLE | |
| 16 | 963329 | | | SOUTH middle | | | |
| 17 | 963330 | | | middle W. side | | | |
| 18 | 963331 | 3B-J | | Border S.W. | | | |
| 19 | 963332 | 2B-J | | Middle E. side | | | |
| 20 | 963333 | 1C-J | | So. East middle | | | |
| 21 | 963334 | 4B-J | 212 | N. WEST | SND. PLASTER WALLS | | 212 |
| 22 | 963335 | 1C-J | WOODSHOP | S.E. EST WALL | | | |
| 23 | 963336 | 3B-J | 201 | STONE RM | | | |
| 24 | 963337 | 4B-J | 2FL. HALL | MIDDLE | | | |
| 25 | 963338 | 1C-J | AUTO SHOP | N.E. WALL | | | |
| 26 | 963339 | 3B-J | 207 | By STONE RM. | | | |
| 27 | 963340 | 4B-J | Rm 2 | W. WALL MIDDLE | | | |
| 28 | 963341 | 6C-J | GIRLS LOCK. | S. EAST WALL | SMTH PLASTER WALLS | | |
| 29 | 963342 | 4B-J | HEAD OFFICE | S. EAST WALL | | | |
| 30 | 963343 | 3B-J | 200 | N.E. WALL | | | |
| 31 | 963344 | 6C-J | GIRLS LOCK. | N. WEST | | | |

NOTE: Original analysis summary report to be sent to Asbestos Technical Supervisor.
(Rev 9/93)

WHITE COPY: TO ATU.

Health Science Associates

# LABORATORY REPORT

Report No.: 951595
Purchase Order: 915527
External No.: SAN PEDRO SR.

DEEANNE BRYANT
LOS ANGELES UNIFIED SCHOOL DISTRICT
1425 SOUTH SAN PEDRO STREET RM 215
LOS ANGELES CA 90015

Date Received: 13-JAN-95
Date Completed: 23-JAN-95
Date Sent: 23-JAN-95


RESULTS TABLE
Sample Count ( 17 )

| Sample No. | Description | Sample Homogeneity | Asbestos Fibers | Nonasbestos Fibers |
|---|---|---|---|---|
| 963328 (041282) | BEIGE STUCCO | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963329 (041283) | BEIGE STUCCO | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963330 (041284) | BEIGE STUCCO | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963331 (041285) | GRAY W/ YELLOW STUCCO | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963332 (041286) | GRAY W/ YELLOW STUCCO | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963333 (041287) | GRAY W/ YELLOW STUCCO | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963334 (041288) | BEIGE W/ GREEN PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963335 (041289) | BEIGE W/ GREEN PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963336 (041290) | BEIGE W/ GREEN PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963337 (041291) | BEIGE W/ YELLOW PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |

10771 Noel St, Los Alamitos, CA 90720 714/220-3922 FAX 714/220-2081

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purposes without written authorization is prohibited.

Health Science Associates

# LABORATORY REPORT



RESULTS TABLE
Sample Count ( 17 )

| Sample No. | Description | Sample Homogeneity | Asbestos Fibers | Nonasbestos Fibers |
|---|---|---|---|---|
| ~~963338~~ (041292) | BEIGE W/ YELLOW PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963339 (041293) | BEIGE W/ YELLOW PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963340 (041294) | BEIGE W/ BLUE PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963341 (041295) | BEIGE W/ BLUE PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963342 (041296) | BEIGE W/ CREAM PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963343 (041297) | BEIGE W/ YELLOW PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963344 (041298) | BEIGE W/ BLUE PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |

Remarks : Sample(s) and sampling data as provided by LOS ANGELES UNIFIED SCHOOL DISTRICT / DEEANNE BRYANT

Analyst : DRB / JHB

Reviewed by: Donald R. Bissing
Asbestos PLM Supervisor, Donald R. Bissing, PhD

AIHA ELLAP Accreditation No.: 10985
AIHA Accreditation No.: 172
California ELAP No.: 1406
NVLAP Accreditation No.: 1384

Technical Approval: Susan Rosenberg
Laboratory Director, Susan B. Rosenberg, CIH

10771 Noel St., Los Alamitos, CA 90720 714/220-3922 FAX 714/220-2081

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purposes without written authorization is prohibited.

ESTOS BULK SAMPLE LOG. SITE: SAN PED SR.
PROJECT: —FEMA—

SAMPLED BY: D. Mooney
DATE SAMPLED: 12-9-94
M & O DISTRICT: 19

Fill in all information Legibly and Precisely. DO NOT USE PENCIL.
Top (blue) copy to EHSB lab with samples, second (white) copy to ATU, third (yellow) copy to inspector.

Lab Received 12-20-94

| Sample # | Lab Sample# | Building | Room/Area | Location in Rm/Ar | Application | Condition | Notes |
|---|---|---|---|---|---|---|---|
| 32 | 963345 | 3B-J | DINING RM | N. WALL | SMTH PLASTER WALL | NON-FRIABLE | |
| 33 | 963346 | 6C-J | Boys B-Rm | N. WALL | | | |
| 34 | 963347 | 4B-J | MENS LOUNGE | N. WALL | | | |
| 35 | 963348 | 3B-J | 2FL. HALL | MIDDLE | 12X12 STR. CEILING TILE | FRIABLE | DIFF. of BOU/ANCE. |
| 36 | 963349 | | 2FL. HALL | MIDDLE WEST | | | |
| 37 | 963350 | | 2FL. HALL | S. EAST | | | |
| 38 | 963351 | 5B-J | 221 | N. WEST | SND. PLASTER CEILING | NON-FRIABLE | SND. |
| 39 | 963352 | 5B-J | 2FL. HALL | MIDDLE | | | SND. |
| 40 | 963353 | 4B-J | IN HOU BY COUNCILERS | S. MIDDLE | | | * AS 3B-J - 6C-J ACOUST. |
| 41 | 963354 | 5B-J | 1FL. HOPPER | MIDDLE | | | SND. |
| 42 | 963355 | 3B-J | DINING STUDENT | S. WEST | | | TAKEN AT PLASTER CEIL. BAR E.W. (SMT |
| 43 | 963356 | 4B-J | 2062FL. | S. WEST | | | * AS 3B-J - 6C-J ACOUST. |
| 44 | 963357 | 3B-J | STORAGE RM 207 | MIDDLE | | | SND. |
| 45 | 963358 | 4B-J | DIN 1FL. HALL | S. WEST | 12X12 STR. CEILING TILE | FRIABLE | |
| 46 | 963359 | 3B-J | DINING STUDENT | S. WEST. | | | |
| 47 | 963360 | 6C-J | Boys COACH OFFICE | S. EAST | | | |
| 48 | 963361 | 4B-J | COUNCILERS OFF. | N. EAST | 12X12 RAND CEILING TILE | FRIABLE | |

NOTE: Original analysis summary report to be sent to Asbestos Technical Supervisor.
(Rev 9/93)

WHITE COPY: TO ATU.

Health Science Associates

# LABORATORY REPORT

Report No.: 951596
Purchase Order: 915527
External No.: SAN PEDRO SR.

DEEANNE BRYANT
LOS ANGELES UNIFIED SCHOOL DISTRICT
1425 SOUTH SAN PEDRO STREET RM 215
LOS ANGELES CA 90015

Date Received: 13-JAN-95
Date Completed: 23-JAN-9
Date Sent: 23-JAN-95


RESULTS TABLE
Sample Count ( 17 )

| Sample No. | Description | Sample Homogeneity | Asbestos Fibers | Nonasbestos Fibers |
|---|---|---|---|---|
| 963345 (041299) | BEIGE W/ YELLOW PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963346 (041300) | BEIGE W/ YELLOW PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963347 (041301) | BEIGE W/ YELLOW PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963348 (041302) | ORANGE W/ WHITE CEILING TILE | COMPOSITE | BELOW LIMIT OF DETECTION | FIBROUS GLASS : 95 %<br>CELLULOSE : <1 % |
| 963349 (041303) | ORANGE W/ WHITE CEILING TILE | COMPOSITE | BELOW LIMIT OF DETECTION | FIBROUS GLASS : 95 %<br>CELLULOSE : <1 % |
| 963350 (041304) | ORANGE W/ WHITE CEILING TILE | COMPOSITE | BELOW LIMIT OF DETECTION | FIBROUS GLASS : 95 %<br>CELLULOSE : <1 % |
| 963351 (041305) | BROWN/BEIGE PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963352 (041306) | BROWN/BEIGE PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963353 (041307) | BEIGE PLASTER & ACOUSTICAL PLASTER | COMPOSITE | CHRYSOTILE : 3 % | CELLULOSE : <1 % |
| 963354 (041308) | BEIGE W/ BLUE PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |

10771 Noel St., Los Alamitos, CA 90720 714/220-3922 FAX 714/220-2081

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Science Associates

# LABORATORY REPORT

Report No.: 951596



RESULTS TABLE
Sample Count ( 17 )

| Sample No. | Description | Sample Homogeneity | Asbestos Fibers | Nonasbestos Fibers |
|---|---|---|---|---|
| 963355 (041309) | BEIGE W/ WHITE PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963356 (041310) | BEIGE PLASTER W/ ACOUSTICAL TEXTURING | COMPOSITE | CHRYSOTILE : 5 % | CELLULOSE : <1 % |
| 963357 (041311) | BEIGE W/ YELLOW PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963358 (041312) | BROWN W/ WHITE CEILING TILE | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : 95 % |
| 963359 (041313) | BROWN W/ WHITE CEILING TILE | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : 95 % |
| 963360 (041314) | BROWN W/ WHITE CEILING TILE | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : 95 % |
| 963361 (041315) | BROWN W/ WHITE CEILING TILE | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : 95 % |

Remarks : Sample(s) and sampling data as provided by LOS ANGELES UNIFIED SCHOOL DISTRICT / DEEANNE BRYANT

Analyst : DRB / JMB

Reviewed by: Donald R. Bissing
Asbestos PLM Supervisor, Donald R. Bissing, PhD

AIHA ELLAP Accreditation No.: 10985
AIHA Accreditation No.: 172
California ELAP No.: 1406
NVLAP Accreditation No.: 1384

Technical Approval: Susan Rosenberg
Laboratory Director, Susan B. Rosenberg, CIH

10771 Noel St., Los Alamitos, CA 90720 714/220-3922 FAX 714/220-2081

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ASTOS BULK SAMPLE LOG.

SITE: SAN PEDRO SR.
PROJECT: — FEMA —

SAMPLED BY: D MONTES
DATE SAMPLED: 12-[illegible]-94
M & O DISTRICT: — 11 —

Fill in all information Legibly and Precisely. DO NOT USE PENCIL.
Top (blue) copy to EHSB lab with samples, second (white) copy to ATU, third (yellow) copy to inspector.

LAB Received 12-20-94

| Sample # | Lab Sample # | Building | Room/Area | Location in Rm/Ar | Application | Condition | Notes |
|---|---|---|---|---|---|---|---|
| 49 | 963362 | 4B-J | COUNCILING OFFICE | MIDWEST | ELXIRAND. CEILING TILE | FRIABLE | |
| 50 | 963363 | 4B-J | COUNCILING OFFICE | S. MIDDLE | ELXIRAND. CEILING TILE | FRIABLE | |
| 51 | 963364 | 6C-J | GIRLS Locker | N. MIDDLE | SMTH CEILING PLASTER | NON-FRIABLE | |
| 52 | 963365 | 6C-J | OFF. Boys R/Rm | S. EAST | | | |
| 53 | 963366 | 3B-J | 200 | S. WEST. | | | |
| 54 | 963367 | 6C-J | GIRLS Locker | S. EAST | | | * 1 DIFF. ACOUSTICAL PL. CEILING |
| 55 | 963368 | 3B-J | KITCHEN | N. EAST | | | |
| 56 | 963369 | 2B-J | FOYER Boys REST RM | MIDDLE | | | |
| 57 | 963370 | 2B-J | BASEMENT Boys R/Rm | MIDDLE | | | |
| 58 | 963371 | 6C-J | OFF. COACH. OFF. Boys | S. EAST. | ACOUSTICAL PLASTER CEILING | NON-FRIABLE | |
| 59 | 963372 | 6C-J | GIRLS COACH OFF. | MIDDLE | | | |
| 60 | 963373 | 6C-J | GIRLS CORRECTIVE Rm | S. EAST. | | | |
| 61 | 963374 | 6C-J | Boys Lock. | N. MIDDLE | SPD. PLASTER CEILING | NON-FRIABLE | |
| 62 | 963375 | 2B-J | FOYER TICKET BTH | MIDDLE | | | |
| 63 | 963376 | 6B-J | Boys Lock. | MID. WEST. | | | |
| 64 | 963377 | 6B-J | HOPPER Rm | MIDDLE | | | |
| 65 | 963378 | 2B-J | FOYER HOPPER Rm | MIDDLE | | | |

NOTE: Original analysis summary report to be sent to Asbestos Technical Supervisor.
(Rev 9/93)

WHITE COPY: TO ATU.

Health Science Associates

# LABORATORY REPORT

Report No.: 951604
Purchase Order: 915527
External No.: SAN PEDRO SR.

DEEANNE BRYANT
LOS ANGELES UNIFIED SCHOOL DISTRICT
1425 SOUTH SAN PEDRO STREET RM 215
LOS ANGELES CA 90015

Date Received: 13-JAN-95
Date Completed: 25-JAN-95
Date Sent: 25-JAN-95


RESULTS TABLE
Sample Count ( 17 )

| Sample No. | Description | Sample Homogeneity | Asbestos Fibers | Nonasbestos Fibers |
|---|---|---|---|---|
| 963362 (041398) | BROWN W/ WHITE CEILING TILE | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : 95 % |
| 963363 (041399) | BROWN W/ WHITE CEILING TILE | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : 95 % |
| 963364 (041400) | BEIGE W/ WHITE PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963365 (041401) | BEIGE W/ YELLOW PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 366 1402) | BEIGE PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963367 (041403) | BEIGE W/ WHITE PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963368 (041404) | BEIGE W/ WHITE PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963369 (041405) | BEIGE W/ PINK PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963370 (041406) | BEIGE W/ PINK PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963371 (041407) | OFF-WHITE ACOUSTICAL PLASTER | COMPOSITE | CHRYSOTILE : 2 % | CELLULOSE : <1 % |

10771 Noel St., Los Alamitos, CA 90720 714/220-3922 FAX 714/220-2081

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Health Science Associates

# LABORATORY REPORT

Report No.: 951604



RESULTS TABLE
Sample Count ( 17 )

| Sample No. | Description | Sample Homogeneity | Asbestos Fibers | Nonasbestos Fibers |
|---|---|---|---|---|
| 963372 (041408) | OFF-WHITE ACOUSTICAL PLASTER | COMPOSITE | CHRYSOTILE : 2 % | CELLULOSE : <1 % |
| 963373 (041409) | GREEN/BEIGE ACOUSTICAL PLASTER | COMPOSITE | CHRYSOTILE : 2 % | CELLULOSE : <1 % |
| 963374 (041410) | BEIGE W/ WHITE PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963375 (041411) | BEIGE W/ PINK PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963376 (041412) | BEIGE W/ WHITE PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963377 (041413) | BEIGE W/ YELLOW PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963378 (041414) | BEIGE W/ PINK PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |

Remarks : Sample(s) and sampling data as provided by LOS ANGELES UNIFIED SCHOOL DISTRICT / DEEANNE BRYANT

Analyst : DRB / JMB

Reviewed by: Donald R. Bissing

Asbestos PLM Supervisor, Donald R. Bissing, PhD

AIHA ELLAP Accreditation No.: 10985
AIHA Accreditation No.: 172
California ELAP No.: 1406
NVLAP Accreditation No.: 1384

Technical Approval: Susan Rosenberg

Laboratory Director, Susan B. Rosenberg, CIH

10771 Noel St., Los Alamitos, CA 90720 714/220-3922 FAX 714/220-2081

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ASTOS BULK SAMPLE LOG.

SITE: SAN PEDRO SR
PROJECT: -FEMA-

SAMPLED BY: D. Mon
DATE SAMPLED: 12-[illegible]-94
M & O DISTRICT: 14

Fill in all information Legibly and Precisely. DO NOT USE PENCIL.
Top (blue) copy to EHSB lab with samples, second (white) copy to ATU, third (yellow) copy to inspector.

LAB Received 12-20-94

| Sample # | Lab Sample# | Building | Room/Area | Location in Rm/Ar | Application | Condition | Notes |
|---|---|---|---|---|---|---|---|
| 66 | 963379 | 2B-J | BASEMENT HOPPER | MIDDLE | SND PLASTER CEILING | NON FRIABLE | |
| 67 | 963380 | 2B-J | ~~BOYS~~ GIRLS. DRESSING | N. WEST. | | | |
| 68 | 963381 | 3B-J | 201 | N. EAST | ACOUSTIC. PL. CEILING | NON FRIABLE | ALSO ON 1 FL. DINING AREA |
| 69 | 963382 | " | HALL 2 FL. | W. END | " | " | |
| 70 | 963383 | " | 203 | N. WEST. | " | " | |
| 71 | 963384 | " | 202 | S. WEST. | " | " | |
| 72 | 963385 | " | KITCHEN. | M. WEST | SMTH PL. CEILING | " | |
| 73 | 963386 | 2B-J | FOYER BOYS R/RM | W. WALL | SMTH PL. WALLS | NON FRIABLE | |
| 74 | 963387 | " | N. HALL | N. WALL | " | " | |
| 75 | 963388 | " | BASEMENT R/RM | W. WALL | " | " | |
| 76 | 963389 | 2B-J | TICKET BTH | W. WALL | SND. PL. WALLS | NON FRIABLE | |
| 77 | 963390 | " | FOYER HOPPER | E. WALL | " | " | |
| 78 | 963391 | " | BASEMENT DR/RM | W. WALL | " | " | |
| 79 | 963392 | " | STAGE CRAFT | N. SIDE | " | " | |
| 80 | 963393 | " | BASEMENT HOPPER | W. WALL | " | " | |
| | | | | | | | |
| | | | | | | | |

NOTE: Original analysis summary report to be sent to Asbestos Technical Supervisor.
(Rev 9/93)

WHITE COPY: TO ATU.

Health Science Associates

# LABORATORY REPORT

Report No.: 951600
Purchase Order: 915527
External No.: SAN PEDRO SR.

DEEANNE BRYANT
LOS ANGELES UNIFIED SCHOOL DISTRICT
1425 SOUTH SAN PEDRO STREET RM 215
LOS ANGELES CA 90015

Date Received: 13-JAN-95
Date Completed: 24-JAN-95
Date Sent: 24-JAN-95


RESULTS TABLE
Sample Count ( 15 )

| Sample No. | Description | Sample Homogeneity | Asbestos Fibers | Nonasbestos Fibers |
|---|---|---|---|---|
| 963379 (041350) | BEIGE W/ PINK PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963380 (041351) | BEIGE W/ WHITE PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963381 (041352) | BEIGE ACOUSTICAL PLASTER | COMPOSITE | CHRYSOTILE : 3 % | CELLULOSE : <1 % |
| 963382 (041353) | BEIGE ACOUSTICAL PLASTER | COMPOSITE | CHRYSOTILE : 3 % | CELLULOSE : <1 % |
| 963383 (041354) | BEIGE ACOUSTICAL PLASTER | COMPOSITE | CHRYSOTILE : 3 % | CELLULOSE : <1 % |
| 963384 (041355) | BEIGE ACOUSTICAL PLASTER | COMPOSITE | CHRYSOTILE : 3 % | CELLULOSE : <1 % |
| 963385 (041356) | BEIGE W/ WHITE PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963386 (041357) | BEIGE W/ WHITE & PINK PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963387 (041358) | BEIGE W/ WHITE & PINK PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963388 (041359) | BEIGE W/ WHITE & PINK PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |

10771 Noel St., Los Alamitos, CA 90720 714/220-3922 FAX 714/220-2081

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Health Science Associates

# LABORATORY REPORT

Report No.: 951600



RESULTS TABLE
Sample Count ( 15 )

| Sample No. | Description | Sample Homogeneity | Asbestos Fibers | Nonasbestos Fibers |
|---|---|---|---|---|
| 963389 (041360) | BEIGE W/ PINK PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963390 (041361) | BEIGE W/ PINK PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963391 (041362) | BEIGE W/ PINK PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963392 (041363) | BEIGE W/ PINK PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963393 (041364) | BEIGE W/ PINK PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |

Remarks : Sample(s) and sampling data as provided by LOS ANGELES UNIFIED SCHOOL DISTRICT / DEEANNE BRYANT

Analyst : DRB / JMB

Reviewed by: Donald R. Bissing
Asbestos PLM Supervisor, Donald R. Bissing, PhD

AIHA ELLAP Accreditation No.: 10985
AIHA Accreditation No.: 172
California ELAP No.: 1406
NVLAP Accreditation No.: 1384

Technical Approval: Susan Rosenberg
Laboratory Director, Susan B. Rosenberg, CIH

10771 Noel St., Los Alamitos, CA 90720 714/220-3922 FAX 714/220-2081

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ESTOS BULK SAMPLE LOG.

SITE: SAN PEDRO SR.
PROJECT: FEMA

SAMPLED BY: D. MONTE 2094 (G. WINNACKER)
DATE SAMPLED: 12-19-94
M & O DISTRICT: 19

Fill in all information Legibly and Precisely. DO NOT USE PENCIL.
Top (blue) copy to EHSB lab with samples, second (white) copy to ATU, third (yellow) copy to inspector.

GB Received 12/20/94

| Sample # | Lab Sample# | Building | Room/Area | Location in Rm/Ar | Application | Condition | Notes |
|---|---|---|---|---|---|---|---|
| 81 | 963394 | 2B-J | A100 | NORTH E. | 2X12 STR. CEILING TILE | FRIABLE | |
| 82 | 963395 | | | MID WEST | | | |
| 83 | 963396 | | | MID SOUTH | | | |
| 84 | 963397 | | | NORTH E. | 1X2 STR. 12"X24" CEILING TILE | | |
| 85 | 963398 | | | S. WEST | | | |
| 86 | 963399 | | | MID WEST | | | |
| 87 | 963400 | | | N. EAST | ACOUST. WALL TILE BACKING | | UNDER WALL TILES |
| 88 | 963401 | | | S. WEST | | | |
| 89 | 963402 | | | S. MIDDLE | | | |
| 90 | VOID | VOID | VOID | VOID | VOID | VOID | |
| 91 | VOID | VOID | VOID | VOID | VOID | VOID | |
| 92 | 963403 | 5B-J | 229 2FL | S. EAST | SND. PLASTER CEILING | NON-FRIABLE | |
| 93 | 963404 | | 127 1FL. | STORE RM. | | | |
| 94 | 963405 | | 226 2FL | N. WEST | | | |
| 95 | 963406 | | 1FL. HALL | MID. EAST | | | |
| 96 | 963407 | 6C-J | BOYS LOCKER | W. WALL | SND PLASTER WALL | | |
| 97 | 963408 | | HOPPER | W. WALL | | | |

NOTE: Original analysis summary report to be sent to Asbestos Technical Supervisor.
(Rev 9/93)

WHITE COPY: TO ATU.

Health Science Associates

# LABORATORY REPORT

Report No.: 951601
Purchase Order: 915527
External No.: SAN PEDRO SR.

DEEANNE BRYANT
LOS ANGELES UNIFIED SCHOOL DISTRICT
1425 SOUTH SAN PEDRO STREET RM 215
LOS ANGELES CA 90015

Date Received: 13-JAN-95
Date Completed: 25-JAN-95
Date Sent: 25-JAN-95


RESULTS TABLE
Sample Count ( 15 )

| Sample No. | Description | Sample Homogeneity | Asbestos Fibers | Nonasbestos Fibers |
|---|---|---|---|---|
| 963394 (041365) | BROWN W/ PINK CEILING TILE | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : 95 % |
| 963395 (041366) | BROWN W/ PINK CEILING TILE | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : 95 % |
| 963396 (041367) | BROWN W/ PINK CEILING TILE | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : 95 % |
| 963397 (041368) | BROWN W/ PINK CEILING TILE | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : 95 % |
| 963398 (041369) | BROWN W/ PINK CEILING TILE | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : 95 % |
| 963399 (041370) | BROWN W/ PINK CEILING TILE | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : 95 % |
| 963400 (041371) | BROWN W/ DULL RED ACOUSTICAL TILE | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : 95 % |
| 063401 (041372) | BROWN W/ DULL RED ACOUSTICAL TILE | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : 95 % |
| 963402 (041373) | BROWN W/ DULL RED ACOUSTICAL TILE | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : 95 % |
| 963403 (041374) | BEIGE PLASTER | 100 % | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |

10771 Noel St., Los Alamitos, CA 90720 714/220-3922 FAX 714/220-2081

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RESULTS TABLE
Sample Count ( 15 )

| Sample No. | Description | Sample Homogeneity | Asbestos Fibers | Nonasbestos Fibers |
|---|---|---|---|---|
| 963404 (041375) | BEIGE PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963405 (041376) | BEIGE PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963406 (041377) | BEIGE PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963407 (041378) | GRAY W/ YELLOW PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |
| 963408 (041379) | OFF-WHITE W/ YELLOW PLASTER | COMPOSITE | BELOW LIMIT OF DETECTION | CELLULOSE : <1 % |

Remarks : Sample(s) and sampling data as provided by LOS ANGELES UNIFIED SCHOOL DISTRICT / DEEANNE BRYANT

Analyst : DRB / JMB

Reviewed by: Donald R. Bissing

Asbestos PLM Supervisor, Donald R. Bissing, PhD

AIHA ELLAP Accreditation No.: 10985
AIHA Accreditation No.: 172
California ELAP No.: 1406
NVLAP Accreditation No.: 1384

Technical Approval: Susan Rosenberg

Laboratory Director, Susan B. Rosenberg, CIH

10771 Noel St., Los Alamitos, CA 90720 714/220-3922 FAX 714/220-2081

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purposes without written authorization is prohibited.

ASBESTOS BULK SAMPLE LOG.

SITE: SAN PEDRO SR.
PROJECT: FEMA

SAMPLED BY: D. MONTOYA
DATE SAMPLED: 12-13-94
M & O DISTRICT: 19

Fill in all information Legibly and Precisely. DO NOT USE PENCIL.
Top (blue) copy to EHSB lab with samples, second (white) copy to ATU, third (yellow) copy to inspector.

| Sample # | Lab Sample # | Building | Room/Area | Location in Rm/Ar | Application | Condition | Notes |
|---|---|---|---|---|---|---|---|
| 98 | 963555 | 6C-J | BOYS OFFICE | S. WALL | SPRAY. WALLS | DOS FRIABLE | |
| 99 | 963556 | | HALLWAY | ~~S.~~ S. WALL | | | |
| 100 | 963557 | | GIRLS OFF. | N. WALL | | | |
| 101 | 963558 | | CORRECTIVE | E. WALL | | | |
| 102 | 963559 | | GIRLS OFF. | IMPACT. W. WALL | | | |
| 103 | 963560 | 2B-J | AUDITOR. | N. W. WALL | ACOUSTICAL PL. WALL | DOS FRIABLE | W. WALL ONLY! |
| 104 | 963561 | | | S. W. WALL | " " | " " | " " |
| 105 | 963562 | | | mid WEST | | | |
| 106 | 963563 | | | mid S. W. | | | |
| 107 | 963564 | | | middle | | | |
| 108 | 963565 | 2B-J | AUDITOR. | N. EAST | ACOUSTICAL PLASTER CEIL. | | |
| 109 | 963566 | | | S. MIDDLE | | | |
| 110 | 963567 | | | W. MIDDLE | | | |
| 111 | 963568 | | | S. WEST | | | |
| 112 | 963569 | | | S. EAST | | | |

NOTE: Original analysis summary report to be sent to Asbestos Technical Supervisor.
(Rev 9/93)

WHITE COPY: TO ATU.

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1425 S. San Pedo St. Rm. 215
os Angeles CA 90015
13) 742-7371

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP # 1505 Page 1
METHOD EPA/600/R-93/116 (MOD) JULY 1993

| LAUSD Lab # | Date Submitted | Mic pst | Date Analyzed | Material Source | Material Description | Chr % | Am % | Oth % | Tot % | Material Background |
|---|---|---|---|---|---|---|---|---|---|---|
| 963555 | 12/22/94 | NLI | 01/20/95 | 6COJ,BOYS OFFICE,SO WALL,SAND PLSTR WALL | NON-HOMOGNS,GRANULR, CEMENTITIOUS,COATED, YELLW,WHITE,NON-FRIAB | 0 | 0 | 0 | 0 | SYNTHETICS-20%, QUARTZ,CALCITE, PAINT |
| 963556 | 12/22/94 | NLI | 01/20/95 | 6COJ,HALLWAY,SOUTH WALL,SAND PLSTR WALL | NON-HOMOGNS,GRANULR, CEMENTITIOUS,COATED, YELLW,WHITE,NON-FRIAB | 0 | 0 | 0 | 0 | SYNTHETICS-20%, QUARTZ,CALCITE, PAINT |
| 963557 | 12/22/94 | NLI | 01/20/95 | 6COJ,GIRLS OFFICE,NO WALL,SAND PLSTR WALL | NON-HOMOGNS,GRANULR, CEMENTITIOUS,COATED, YELLW,WHITE,NON-FRIAB | 0 | 0 | 0 | 0 | SYNTHETICS-10%, QUARTZ,CALCITE, PAINT |
| 963558 | 12/22/94 | NLI | 01/20/95 | 6COJ,CORRECTIVE,EAST WALL,SAND PLSTR WALL | NON-HOMOGNS,GRANULR, CEMENTITIOUS,COATED, YELLW,WHITE,NON-FRIAB | 0 | 0 | 0 | 0 | CELLULOSE-3%, QUARTZ,CALCITE, PAINT |
| 963559 | 12/22/94 | NLI | 01/20/95 | 6COJ,GIRLS OFFICE,E WALL,SAND PLSTR WALL | NON-HOMOGENOUS,GRAN-ULAR,COATED,YELLOW, BEIGE,NON-FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE-3%,PAINT, SYNTHETICS-5%, QUARTZ,CALCITE, |
| 3560 | 12/22/94 | NLI | 01/20/95 | 2BOJ,AUDITOR,NW WALL ACCOUSTCL WALL PLSTR | NON-HOMOGENOUS,GRAN-ULAR,COATED,YELLOW, BEIGE,NON-FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE-2%, QUARTZ,CALCITE, PAINT |
| 963561 | 12/22/94 | NLI | 01/20/95 | 2BOJ,AUDITOR,SW WALL ACCOUSTCL WALL PLSTR | NON-HOMOGENOUS,GRAN-ULAR,COATED,YELLOW, BEIGE,NON-FRIABLE | 0 | 0 | 0 | 0 | SYNTHETICS-10%, QUARTZ,CALCITE, PAINT,GYPSUM |
| 963562 | 12/22/94 | NLI | 01/20/95 | 2BOJ,AUDITORIUM,MID W,ACCSTCL WALL PLSTR | NON-HOMOGENOUS,GRAN-ULAR,COATED,YELLOW, BEIGE,NON-FRIABLE | 0 | 0 | 0 | 0 | SYNTHETICS-15%, QUARTZ,CALCITE, PAINT,GYPSUM |
| 963563 | 12/22/94 | NLI | 01/20/95 | 2BOJ,AUDITORIUM,MID SW,ACCSTCL WALL PLST | NON-HOMOGENOUS,GRAN-ULAR,CEMENTITIOUS, YELLOW,NON-FRIABLE | 0 | 0 | 0 | 0 | SYNTHETICS-10%, QUARTZ,CALCITE, PAINT |
| 963564 | 12/22/94 | NLI | 01/20/95 | 2BOJ,AUDITORIUM,MID, ACCSTICAL WALL PLSTR | NON-HOMOGENOUS,GRAN-ULAR,CEMENTITIOUS, YELLOW,NON-FRIABLE | 0 | 0 | 0 | 0 | QUARTZ,CALCITE, GYPSUM |
| 963565 | 12/22/94 | NLI | 01/20/95 | 2B-J,AUDITORIUM,NE, ACCSTICAL CLNG PLSTR | NON-HOMOGENS,CHALKY, GRANULAR,COATED,PINK YELLOW,NON-FRIABLE | 0 | 0 | 0 | 0 | CELLULOSE-2%, QUARTZ,CALCITE, GYPSUM |

Signature of Lab Supervisor: Deelinae Bryant Signature of Analyst: Patty L. Doan

TE: 0% : No Asbestos Detected; < 1% : Asbestos Detected Above 0% and Below 1%.
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ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850


METHOD EPA/600/R-93/116 (MOD) JULY 1993

| LAUSD Lab # | Date Submitted | Mic pst | Date Analyzed | Material Source | Material Description | Chr % | Am % | Oth % | Tot % | Material Background |
|---|---|---|---|---|---|---|---|---|---|---|
| 963566 | 12/22/94 | NLI | 01/20/95 | 2B-J,AUDITORIUM,SO MID,ACCSCL CLNG PLST | NON-HOMOGENS,CHALKY, GRANULAR,COATED,PINK YELLOW,NON-FRIABLE | 0 | 0 | 0 | 0 | SYNTHETICS-3%, QUARTZ,CALCITE, GYPSUM |
| 963567 | 12/22/94 | NLI | 01/20/95 | 2B-J,AUDITORIUM,WEST MID,ACCSCL CLNG PLST | NON-HOMOGENS,COATED, GRANULAR,CEMENTI-TIOUS,BROWN,NON-FRIA | 0 | 0 | 0 | 0 | SYNTHETICS-20%, QUARTZ,CALCITE, GYPSUM,PAINT |
| 963568 | 12/22/94 | NLI | 01/20/95 | 2B-J,AUDITORIUM,SW, ACCSTCL CEILNG PLSTR | NON-HOMOGENS,COATED, GRANULAR,CEMENTI-TIOUS,BROWN,NON-FRIA | 0 | 0 | 0 | 0 | CELLULOSE-1%, QUARTZ,CALCITE, GYPSUM,PAINT |
| 963569 | 12/22/94 | NLI | 01/20/95 | 2B-J,AUDITORIUM,NE, ACCSTCL CEILNG PLSTR | NON-HOMOGENS,COATED, GRANULR,CEMENTITS, PINK,YELLW,NON-FRIAB | 0 | 0 | 0 | 0 | CELLULOSE-1%, QUARTZ,CALCITE, GYPSUM,PAINT |

Signature of Lab Supervisor: DeLeane Bryant Signature of Analyst: Holly L. Isaac

N: 0% : No Asbestos Detected; 1% : Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantitation done by optical estimate" 1 - 5% considered non-quantifiable.
This report relates to only the material used.
This report is not used by the LAUSD/EHSB to claim product endorsement by NVLAP or any agency of the U.S. government.

# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: SAN PEDRO H.S. CODE: E8850 PROJECT: TILE REMOVAL

SAMPLED BY: J. DUTTER DEPT.: PAINT TEL. NO.: 310 515-3155 DATE SAMPLED: 8-15-96

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. ***DO NOT USE PENCIL*** (Rev. 4/95)

Original to EHSB lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 9608-0459 | E85001 | 003 BCJ | HOME ECONOMICS | DISHWASHING RM. | MIDDLE OF ROOM | 12x12 Dark Brick | YES (NO) |
| 9608-0460 | E85002 | | | | | Floor Tile | YES (NO) |
| 9608-0461 | E85003 | | | | | | YES (NO) |
| 9608-0462 | E85004 | | | | | | YES (NO) |
| 9608-0463 | E85005 | | | | | | YES (NO) |
| 9608-0464 | E85006 | | | | | | YES (NO) |
| 9608-0465 | E85007 | | | STORAGE RM. | MIDDLE OF SOUTH WALL | | YES (NO) |
| 9608-0466 | E85008 | | | | CENTER OF ROOM | | YES (NO) |
| 9608-0467 | E85009 | | | | NEXT TO EAST DOORWAY | | YES (NO) |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT & SIGN: | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 8-15-96 | 9:00 | J.L. DUTTER | PAINT M507 | (9) |
| 08-15-96 | 1:30 | ANDY M. GUEVARRA | CARP-01 / M20-7 | NINE (9) |
| 8-19-96 | 12:12 | LeBarron Yates | carp-01 / m20-7 | 9 |
| 8-19-96 | 1215 | Harrison / [illegible] | ETKS | 9 |
| | | | | |

Los Angeles Unified School District
Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

LABORATORY REPORT
SAN PEDRO HS
8850

METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Submitted: 8/19/96


| AUSD Lab# | ANALYST | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 9608-0459A | NLI | 8/28/96 | 003BCJ, HOME EC, DSHWSH / MIDDLE OF ROOM | NON-HOMOGENEOUS, NON-FRIABLE, RED, DARK BRICK, FLAT SOLID | 2 | 0 | 0 | 2 | 1% CELLULOSE, QUARTZ, CALCITE, PIGMENT |
| 9608-0459B | NLI | 8/28/96 | 003BCJ, HOME EC, DSHWSH / MIDDLE OF ROOM | NON-HOMOGENEOUS, NON-FRIABLE, BLACK, FLOOR TILE MASTIC, TARLIKE | 0 | 0 | 0 | 0 | 3% CELLULOSE, TAR |
| 9608-0460A | NLI | 8/28/96 | 003BCJ, HOME EC, DSHWSH / MIDDLE OF ROOM | NON-HOMOGENEOUS, NON-FRIABLE, RED, FLOOR TILE, FLAT SOLID | 3 | 0 | 0 | 3 | QUARTZ, CALCITE, PIGMENT |
| 9608-0460B | NLI | 8/28/96 | 003BCJ, HOME EC, DSHWSH / MIDDLE OF ROOM | NON-HOMOGENEOUS, NON-FRIABLE, BLACK, FLOOR TILE MASTIC, TARLIKE | 0 | 0 | 0 | 0 | 2% CELLULOSE, TAR |
| 9608-0461A | NLI | 8/28/96 | 003BCJ, HOME EC, DSHWSH / MIDDLE OF ROOM | NON-HOMOGENEOUS, NON-FRIABLE, RED, FLOOR TILE, FLAT SOLID | 2 | 0 | 0 | 2 | 1% CELLULOSE, QUARTZ, CALCITE, PIGMENT |
| 9608-0461B | NLI | 8/28/96 | 003BCJ, HOME EC, DSHWSH / MIDDLE OF ROOM | NON-HOMOGENEOUS, NON-FRIABLE, BLACK, FLOOR TILE MASTIC, TARLIKE | 0 | 0 | 0 | 0 | 3% CELLULOSE, TAR |
| 9608-0462A | NLI | 8/28/96 | 003BCJ, HOME EC, DSHWSH / MIDDLE OF ROOM | NON-HOMOGENEOUS, NON-FRIABLE, RED, FLOOR TILE, FLAT SOLID | 3 | 0 | 0 | 3 | QUARTZ, CALCITE, PIGMENT |
| 9608-0462B | NLI | 8/28/96 | 003BCJ, HOME EC, DSHWSH / MIDDLE OF ROOM | NON-HOMOGENEOUS, NON-FRIABLE, BLACK, FLOOR TILE, MASTIC, TARLIKE | 5 | 0 | 0 | 5 | TAR |
| 9608-0463A | NLI | 8/28/96 | 003BCJ, HOME EC, DSHWSH / MIDDLE OF ROOM | NON-HOMOGENEOUS, NON-FRIABLE, RED, FLOOR TILE, FLAT SOLID | 3 | 0 | 0 | 3 | 1% CELLULOSE, QUARTZ, CALCITE, PIGMENT |
| 9608-0463B | NLI | 8/28/96 | 003BCJ, HOME EC, DSHWSH / MIDDLE OF ROOM | NON-HOMOGENEOUS, NON-FRIABLE, BLACK, FLOOR TILE, MASTIC, TARLIKE | 2 | 0 | 0 | 2 | 3% CELLULOSE, TAR |
| 9608-0464A | NLI | 8/28/96 | 003BCJ, HOME EC, DSHWSH / MIDDLE OF ROOM | NON-HOMOGENEOUS, NON-FRIABLE, RED, FLOOR TILE, FLAT SOLID | 2 | 0 | 0 | 2 | QUARTZ, CALCITE, PIGMENT |

Signature of Lab Supervisor: _____ Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
This report relates to only the material tested.
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(213) 742-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Submitted: 8/19/96


| LAUSD Lab# | ANALYST | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 9608-0464B | NLI | 8/28/96 | 003BCJ, HOME EC, DSHWSH / MIDDLE OF ROOM | NON-HOMOGENEOUS, NON-FRIABLE, BLACK, FLOOR TILE, MASTIC, TARLIKE | 2 | 0 | 0 | 2 | 3% CELLULOSE, TAR |
| 9608-0465A | NLI | 8/28/96 | 003BCJ, HOME EC, STORAGE / MIDDLE OF SOUTH WALL | NON-HOMOGENEOUS, NON-FRIABLE, RED/BROWN, FLOOR TILE, FLAT SOLID | 0 | 0 | 0 | 0 | 5% CELLULOSE, BINDER |
| 9608-0465B | NLI | 8/28/96 | 003BCJ, HOME EC, STORAGE / MIDDLE OF SOUTH WALL | NON-HOMOGENEOUS, NON-FRIABLE, BLACK, FLOOR TILE, MASTIC, TARLIKE | 0 | 0 | 0 | 0 | 30% CELLULOSE, GLUE |
| 9608-0466A | NLI | 8/28/96 | 003BCJ, HOME EC, STORAGE / CENTER OF ROOM | NON-HOMOGENEOUS, NON-FRIABLE, RED/BROWN, FLOOR TILE, FLAT SOLID | 0 | 0 | 0 | 0 | 10% CELLULOSE, BINDER |
| 9608-0466B | NLI | 8/28/96 | 003BCJ, HOME EC, STORAGE / CENTER OF ROOM | NON-HOMOGENEOUS, NON-FRIABLE, BLACK, FLOOR TILE, MASTIC, TARLIKE | 0 | 0 | 0 | 0 | 30% CELLULOSE, GLUE |
| 9608-0467A | NLI | 8/28/96 | 003BCJ, HOME EC, STORAGE / NEXT TO EAST DOORWAY | NON-HOMOGENEOUS, NON-FRIABLE, RED/BROWN, FLOOR TILE, SOLID | 0 | 0 | 0 | 0 | 10% CELLULOSE, BINDER |
| 9608-0467B | NLI | 8/28/96 | 003BCJ, HOME EC, STORAGE / NEXT TO EAST DOORWAY | NON-HOMOGENEOUS, NON-FRIABLE, BLACK, FLOOR TILE, MASTIC, TARLIKE | 0 | 0 | 0 | 0 | 30% CELLULOSE, GLUE |

Signature of Lab Supervisor: _____ Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
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# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: SAN PEDRO SR. CODE: 8850 PROJECT: ATHERA

SAMPLED BY: D Montgomery DEPT.: A.T.U.-19 TEL. NO.: 5403 DATE SAMPLED: 1-26-96

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. DO NOT USE PENCIL (Rev. 4/95)

Original to EHSB lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) | |
|---|---|---|---|---|---|---|---|---|
| 996556 | 1 | 4B-J | ADMINISTRAT. | Rm 1 | E/CENTER | 9x9 BROWN FL. TILE & MASTIC | YES (NO) | POS |
| 996557 | 2 | " | " | Rm 1 DRK Rm. | S/CENTER | " | YES (NO) | POS |
| 996558 | 3 | " | " | Rm 1 DRK Rm. | CENTER | " | YES (NO) | POS |
| 996559 | 4 | " | " | 210 | S/CENTER | RED BATTLESHIP FL. | YES (ND) | N/D |
| 996560 | 5 | " | " | Rm 215 | N/CENTER | & MASTIC | YES (ND) | N/D |
| 996561 | 6 | " | " | Rm 215 | S/CENTER | " | YES (ND) | N/D |
| | | | | | | | YES NO | |
| | | | | | | | YES NO | |
| | | | | | | | YES NO | |
| | | | | | | | YES NO | |
| | | | | | | | YES NO | |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT & SIGN: | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 1-26-96 | 14:00 | D Montgomery - D Montgomery | A.T.U.-19 | 6 |
| 1-29-96 | 1300 | SHANE CHERRY | EHSB | 6 |
| | | | | |
| | | | | |
| | | | | |

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ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850


METHOD EPA/600/R-93/116 (MOD) JULY 1993

| LAUSD Lab # | Date Submitted | Mic pst | Date Analyzed | Material Source | Material Description | Chr % | Am % | Oth % | Tot % | Material Background |
|---|---|---|---|---|---|---|---|---|---|---|
| 996556A | 01/29/96 | PF | 02/09/96 | 4B-J,ADMINSTRTN,RM.1 E/CTR,9X9 FLOOR TILE | NON-HOMOGENEOUS, FLAT SOLID, BROWN, NON-FRIABLE | <1 | 0 | 0 | <1 | 5% CELLULOSE BINDER,CALCITE |
| 996556B | 01/29/96 | PF | 02/09/96 | 4B-J,ADMINSTRTN,RM.1 E/CTR,9X9 FLOOR TILE | NON-HOMOGENEOUS, TAR-LIKE, BLACK, NON-FRIABLE | 4 | 0 | 0 | 4 | 3% CELLULOSE TAR,BINDER |
| 996557A | 01/29/96 | PF | 02/09/96 | 4B-J,ADM,DRK.RM,RM.1 SO/CT,9X9 FLOOR TILE | NON-HOMOGENEOUS, FLAT SOLID, BROWN, NON-FRIABLE | <1 | 0 | 0 | <1 | 4% CELLULOSE CALCITE,BINDER |
| 996557B | 01/29/96 | PF | 02/09/96 | 4B-J,ADM,DRK.RM,RM.1 SO/CT,9X9 FLOOR TILE | NON-HOMOGENEOUS, TAR-LIKE, BLACK, NON-FRIABLE | 5 | 0 | 0 | 5 | 3% CELLULOSE TAR,BINDER |
| 996558A | 01/29/96 | PF | 02/09/96 | 4B-J,ADM,DRK.RM,RM.1 CENTR/9X9 FLOOR TILE | NON-HOMOGENEOUS, FLAT SOLID, BROWN, NON-FRIABLE | <1 | 0 | 0 | <1 | 4% CELLULOSE CALCITE,BINDER |
| 996558B | 01/29/96 | PF | 02/09/96 | 4B-J,ADM,DRK.RM,RM.1 CENTR/9X9 FLOOR TILE | NON-HOMOGENEOUS, TAR-LIKE, BLACK, NON-FRIABLE | 4 | 0 | 0 | 4 | 5% CELLULOSE TAR,BINDER |
| 996559A | 01/29/96 | PF | 02/09/96 | 4B-J,ADMISTRN.RM.210 S/C,BATTLESHIP FLOOR | NON-HOMOGENEOUS, FLAT SOLID, LIGHT BRWN/RED,NON-FRIABLE | 0 | 0 | 0 | 0 | 25% CELLULOSE CALCITE,BINDER |
| 996559B | 01/29/96 | PF | 02/09/96 | 4B-J,ADMISTRN.RM.210 S/C,BATTLESHIP FLOOR | NON-HOMOGENEOUS, WOVEN,BUR LAP-LIKE, TAN, NON-FRIABLE | 0 | 0 | 0 | 0 | 70% CELLULOSE BINDER |
| 996560A | 01/29/96 | PF | 02/09/96 | 4B-J,ADMISTRN.RM.215 N/C,BATTLESHIP FLOOR | NON-HOMOGENEOUS, FLAT SOLID, LIGHT BRWN/RED,NON-FRIABLE | 0 | 0 | 0 | 0 | 30% CELLULOSE CALCITE,BINDER |
| 996560B | 01/29/96 | PF | 02/09/96 | 4B-J,ADMISTRN.RM.215 N/C,BATTLESHIP FLOOR | NON-HOMOGENEOUS, WOVEN,BUR LAP-LIKE, TAN, NON-FRIABLE | 0 | 0 | 0 | 0 | 70% CELLULOSE BINDER |
| 996561A | 01/29/96 | PF | 02/09/96 | 4B-J,ADMISTRN.RM.215 S/C,BATTLESHIP FLOOR | NON-HOMOGENEOUS, FLAT SOLID, LIGHT BRWN/RED,NON-FRIABLE | 0 | 0 | 0 | 0 | 30% CELLULOSE CALCITE,BINDER |

Signature of Lab Supervisor: DeAnne Bryant Signature of Analyst: Patty Flores

NOTE: 0% : No Asbestos Detected; < 1% : Asbestos Detected Above 0% and Below or Equal to 1%.
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ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850


METHOD EPA/600/R-93/116 (MOD) JULY 1993

| LAUSD Lab # | Date Submitted | Mic pst | Date Analyzed | Material Source | Material Description | Chr % | Am % | Oth % | Tot % | Material Background |
|---|---|---|---|---|---|---|---|---|---|---|
| 996561B | 01/29/96 | PF | 02/09/96 | 4B-J,ADMISTRN.RM.215 S/C,BATTLESHIP FLOOR | NON-HOMOGENEOUS, BUR LAP-LIKE, WOVEN, TAN, NON-FRIABLE | 0 | 0 | 0 | 0 | 70% CELLULOSE BINDER |

Signature of Lab Supervisor: DeAnne Bryant Signature of Analyst: Patty Fitts

NOTE: 0% : No Asbestos Detected; <1% : Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantitation done by optical estmate" 1 - 5% considered non-quantifiable.
This report relates to only the material used.
This report is not used by the LAUSD/EHSB to claim product endorsement by NVLAP or any agency of the U.S. government.

# ASBESTOS BULK SAMPLE SUBMITTAL (NEW EPOXY FLOOR)

SITE NAME: SAN PEDRO H.S. CODE: 8850 PROJECT: REMOVE FLOORCOVERING

SAMPLED BY: J. DUTTER DEPT.: PAINT TEL. NO.: 310 515-3155 DATE SAMPLED: 12-9-96

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. DO NOT USE PENCIL (Rev. 7/95)

Original to EHSB lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | JOB NUMBER | DSR NUMBER | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|---|---|
| 9612-0727 | 8501 | 003BCJ | HOME ECONOMICS | 638EAZ | | KITCHEN LOCKER ROOM | NORTH EAST CORNER | 12x12 RUST FLOOR TILE | YES (NO) |
| 9612-0728 | 8502 | | | | | | SOUTH EAST CORNER | | YES (NO) |
| 9612-0729 | 8503 | | | | | | SOUTH WEST CORNER | | YES (NO) |
| 9612-0730 | 8504 | | | | | KITCHEN | ACROSS LOCKER RM WALKWAY | BATTLESHIP BROWN | YES (NO) |
| 9612-0731 | 8505 | | | | | | NEXT TO WALK IN FREEZER | | YES (NO) |
| 9612-0732 | 8506 | | | | | | DOORWAY TO LOADING DOCK EXIT | | YES (NO) |
| 9612-0733 | 8507 | | | | | KITCHEN FOOD PREP AREA (EAST END BLDG) | NORTH WEST DOOR WAY | 3 SHEET VINYL YELLOW & WHITE | YES (NO) |
| 9612-0734 | 8508 | | | | | | NEXT TO DRAIN NORTH EAST CORNER | | YES (NO) |
| 9612-0735 | 8509 | | | | | | SOUTH WEST DOOR WAY | | YES (NO) |
| | | | | | | | | | YES NO |
| | | | | | | | | | YES NO |

Reviewed Pending

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT AND SIGN | DEPARTMENT/AREA | NO. OF SAMPLES: |
|---|---|---|---|---|
| 12-9-96 | 3:15 | JOSEPH DUTTER | FLOORCOVERING/M&O7 | 9 |
| 12-11-96 | 7:15 | A.M. GUEVARRA | CARP/M&O | NINE (9) |
| 12-13-96 | 1:40 | L. YATES | " " " " | nine (9) |
| 12-13-96 | 1:50 | M ISAAC | EHSB | (9) |
| 12/19/96 | 9:30 | N. Moore | Forensic | 9 |

**Forensic Analytical**
Analytical Report

San Francisco • 3777 Depot Road, Suite 409, Hayward, CA 94545 • Phone 510/887-8828 • Fax 510/887-4218
Los Angeles • 2959 Pacific Commerce Dr., Rancho Dominguez, CA 90221 • Phone 310/763-2374 • Fax 310/763-8684

# Bulk Asbestos Analysis Summary
## 40 CFR 763, Subpart F, Appendix A (AHERA)

Client:
Los Angeles Unified School District

1449 So. San Pedro Street
Los Angeles, CA 90015

Client ID: 5607
Report Number: 584677
Date Received: 12/19/96
Date Analyzed: 12/23/96

P.O. Num:
Job ID: Remove Floor Covering.
Site: San Pedro H.S.

| Sample Number / Location/Description | Date Col. | Lab Num. | Asbestos Present | (Breakdown by type) |
|---|---|---|---|---|
| 9612-0727<br>12 x 12 rust floor tile - Home Economics 003BCJ, kitchen locker room, n/east corner. | 12/09/96 | 59653179 | Non-Det.% | |
| 9612-0728<br>12 x 12 rust floor tile - Home Economics 003BCJ, kitchen locker room, s/east corner. | 12/09/96 | 59653180 | Non-Det.% | |
| 9612-0729<br>12 x 12 rust floor tile - Home Economics 003BCJ, kitchen locker room, s/west corner. | 12/09/96 | 59653181 | Non-Det.% | |
| 9612-0730<br>Battleship brown - Home Economics 003BCJ, kitchen, across locker room walkway. | 12/09/96 | 59653182 | Non-Det.% | |
| 9612-0731<br>Battleship brown - Home Economics 003BCJ, kitchen, next to walk-in freezer. | 12/09/96 | 59653183 | Non-Det.% | |

Matilde Antillon

Matilde Antillon, Laboratory Supervisor, Rancho Dominguez Laboratory

Analytical results and reports are generated by Forensic Analytical at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by Forensic Analytical to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full with approval from Forensic Analytical. The client is solely responsible for the use and interpretation of test results and reports requested from Forensic Analytical. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. Forensic Analytical is not able to assess the degree of hazard resulting from materials analyzed. Forensic Analytical reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Forensic Analytical
Analytical Report

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Los Angeles • 2959 Pacific Commerce Dr., Rancho Dominguez, CA 90221 • Phone 310/763-2374 • Fax 310/763-8684

# Bulk Asbestos Analysis Summary

40 CFR 763, Subpart F, Appendix A (AHERA)

Client:
Los Angeles Unified School District

1449 So. San Pedro Street
Los Angeles, CA 90015

Client ID: 5607
Report Number: 584677
Date Received: 12/19/96
Date Analyzed: 12/23/96

P.O. Num:
Job ID: Remove Floor Covering.
Site: San Pedro H.S.

| Sample Number / Location/Description | Date Col. | Lab Num. | Asbestos Present | (Breakdown by type) |
|---|---|---|---|---|
| 9612-0732<br>Battleship brown - Home Economics 003BCJ, kitchen, doorway to loading dock exit. | 12/09/96 | 59653184 | Non-Det.% | |
| 9612-0733<br>Sheet vinyl, yellow and white - Home Economics 003BCJ, kitchen food prep area, n/west doorway. | 12/09/96 | 59653185 | Non-Det.% | |
| 9612-0734<br>Sheet vinyl, yellow & white - Home Ec., 003BCJ, kitchen food prep area, next to drain n/east corner. | 12/09/96 | 59653186 | Non-Det.% | |
| 9612-0735<br>Sheet vinyl, yellow & white - Home Economics, 003BCJ, kitchen food prep area, s/west doorway. | 12/09/96 | 59653187 | Non-Det.% | |

Matilde Antillón

Matilde Antillón, Laboratory Supervisor, Rancho Dominguez Laboratory

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# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: SAN PEDRO AD  CODE: 9385  PROJECT: REROOF

SAMPLED BY: S. Cordova  DEPT.: Roofing  TEL. NO.: 763-2971  DATE SAMPLED: 7-10-97

Fill in all information Legibly and Precisely.  Sampler should make a copy before submitting to the lab.  DO NOT USE PENCIL  (Rev. 4/95)

Original to EHSB lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 9707-0319 | 1 | X-0244K | Bungalow | ROOF AREA | NORTH END OF ROOF | shingle / tar sheet / cap sheet | YES (NO) |
| 9707-0320 | 2 | " | " | " | So. W. END OF RF. | " | YES (NO) |
| 9707-0321 | 3 | " | " | " | So. E. END OF RF | " | YES (NO) |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT & SIGN: | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 7/14-97 | 7:20 | S. Cordova S. Cordova | Roofing ID | 3 |
| 7/14/97 | 7:20 | NASLAT HARRIS [illegible] | EHSB | 3 |
| 7/23/97 | 4:00pm. | Mildred Hudson Mildred Hudson | FASI | 3 |
| | | | | |
| | | | | |

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Los Angeles • 2959 Pacific Commerce Dr.. Rancho Dominguez. CA 90221 • Phone 310/763-2374 • Fax 310/763-8684

# Bulk Asbestos Analysis Summary

## 40 CFR 763, Subpart F, Appendix A (AHERA 10/87)

Client:
Los Angeles Unified School District

1449 So. San Pedro Street
Los Angeles, CA 90015

Client ID: 5607
Report Number: 588986
Date Received: 07/24/97
Date Analyzed: 07/25/97

P.O. Num: D7-00186605
Job ID: REROOF.
Site: San Pedro.

| Sample Number / Location/Description | Date Col. | Lab Num. | Asbestos Present | (Breakdown by type) |
|---|---|---|---|---|
| 9707-0319<br>Shingles - Bungalow, X0244K, roof area, north end of roof. | 07/10/97 | 59730397 | Non-Det.% | |
| 9707-0320<br>Cap sheet - Bungalow, X0244K, roof area, southwest end of roof. | 07/10/97 | 59730398 | Non-Det.% | |
| 9707-0321<br>Cap sheet - Bungalow, X0244K, roof area, southeast end of roof. | 07/10/97 | 59730399 | Non-Det.% | |

Matilde Antillon

Matilde Antillon, Laboratory Supervisor/ Rancho Dominguez Laboratory

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# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: San Pedro SR  CODE: 8850  PROJECT: BB-Paint

SAMPLED BY: R. Flores  DEPT.: ATU 19  TEL. NO.: 763-1450  DATE SAMPLED: 7-21-97

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. **DO NOT USE PENCIL** (Rev. 4/95)

Original to EHSB lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 9707-0798 | 23SP | X1642N | AA1642 | Exterior | S\|WEST | Stucco | YES (NO) |
| 9707-0799 | 24SP | ↓ | ↓ | ↓ | E\|CENTER | ↓ | YES (NO) |
| 9707-0800 | 25SP | X0830N | AA 830 | | N\|WEST | | YES (NO) |
| 9707-0801 | 26SP | ↓ | ↓ | | N\|EAST | | YES (NO) |
| 9707-0802 | 27SP | M0429H | Garage | | S\|EAST | | YES (NO) |
| 9707-0803 | 28SP | ↓ | ↓ | | S\|CENTER | | YES (NO) |
| 9707-0804 | 29SP | ↓ | ↓ | | S\|WEST | | YES (NO) |
| 9707-0805 | 30SP | --7D-N | Sanitary | | N\|EAST | | YES (NO) — <1% |
| 9707-0806 | 31SP | ↓ | ↓ | | S\|EAST | | YES (NO) — <1% |
| 9707-0807 | 32SP | ↓ | ↓ | | S\|CENTER | | YES (NO) — <1% |
| 9707-0808 | 33SP | -14D-P | Food Service | ↓ | N\|WEST | ↓ | YES (NO) |

CUSTODY:

| DATE: | TIME: | NAME: PRINT & SIGN: | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 7-21-97 | 1:30pm | Paul Flores PF | ATU 19 | 11 |
| 7-22-97 | 1PM | Brett Koontz Brett Koontz | EHSB | 11 |
| | | | | |
| | | | | |
| | | | | |

Los Angeles Unified School District
Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 7/21/97


| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 9707-0798A | CT | 7/30/97 | AA1642/EXTERIOR / SOUTH WEST | NON-HOMOGENEOUS, NON-FRIABLE, TAN, DASHCOAT, COATED MATERIAL | 0 | 0 | 0 | 0 | CELLULOSE 2%, CALCITE, QUARTZ,BINDER |
| 9707-0798B | CT | 7/30/97 | AA1642/EXTERIOR / SOUTH WEST | NON-HOMOGENEOUS, NON-FRIABLE, WHITE, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | CELLULOSE 2%, CALCITE, QUARTZ,BINDER |
| 9707-0799A | CT | 7/30/97 | AA1642/EXTERIOR / EAST CENTER | NON-HOMOGENEOUS, NON-FRIABLE, OFF-WHITE, STUCCO, COATED MATERIAL | 0 | 0 | 0 | 0 | CELLULOSE 2%, CALCITE, QUARTZ,BINDER |
| 9707-0799B | CT | 7/30/97 | AA1642/EXTERIOR / EAST CENTER | NON-HOMOGENEOUS, NON-FRIABLE, WHITE, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | CELLULOSE 2%, CALCITE, QUARTZ,BINDER |
| 9707-0800A | CT | 7/30/97 | X0830M/AA830 EXTERIOR / NORTH WEST | NON-HOMOGENEOUS, NON-FRIABLE, OFF WHT, STUCCO, COATED MATERIAL | 0 | 0 | 0 | 0 | CELLULOSE 2%, CALCITE, QUARTZ, BINDER |
| 9707-0800B | CT | 7/30/97 | X0830M/AA830 EXTERIOR / NORTH WEST | NON-HOMOGENEOUS, NON-FRIABLE, OFF WHT, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | CELLULOSE 2%, CALCITE, QUARTZ, BINDER |
| 9707-0801A | CT | 7/30/97 | X0830M/AA830 EXTERIOR / NORTH EAST | NON-HOMOGENEOUS, NON-FRIABLE, OFF WHT, STUCCO, COATED MATERIAL | 0 | 0 | 0 | 0 | CELLULOSE 2%, CALCITE, QUARTZ, BINDER |
| 9707-0801B | CT | 7/30/97 | X0830M/AA830 EXTERIOR / NORTH EAST | NON-HOMOGENEOUS, NON-FRIABLE, OFF WHT, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | CELLULOSE 2%, CALCITE, QUARTZ, BINDER |
| 9707-0802A | CT | 7/30/97 | M0429H/GARAGE / SOUTH EAST | NON-HOMOGENEOUS, NON-FRIABLE, OFF WHT, STUCCO, COATED MATERIAL | 0 | 0 | 0 | 0 | CELLULOSE 2%, CALCITE, QUARTZ, BINDER |
| 9707-0802B | CT | 7/30/97 | M0429H/GARAGE / SOUTH EAST | NON-HOMOGENEOUS, NON-FRIABLE, OFF WHT, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | CELLULOSE 2%, CALCITE, QUARTZ, BINDER |
| 9707-0803A | CT | 7/30/97 | M0429H/GARAGE / SOUTH CENTER | NON-HOMOGENEOUS, NON-FRIABLE, OFF WHT, STUCCO, COATED MATERIAL | 0 | 0 | 0 | 0 | CELLULOSE 2%, CALCITE, QUARTZ, BINDER |

Signature of Lab Supervisor: _____ Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
This report relates to only the material tested.

Los Angeles Unified School District
Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 7/21/97


| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 9707-0803B | CT | 7/30/97 | M0429H/GARAGE / SOUTH CENTER | NON-HOMOGENEOUS, NON-FRIABLE, OFF WHT, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | CELLULOSE 2%, CALCITE, QUARTZ, BINDER |
| 9707-0804A | CT | 7/30/97 | M0429H/GARAGE / SOUTH WEST | NON-HOMOGENEOUS, NON-FRIABLE, OFF WHT, STUCCO, COATED MATERIAL | 0 | 0 | 0 | 0 | CELLULOSE 2%, CALCITE, QUARTZ, BINDER |
| 9707-0804B | CT | 7/30/97 | M0429H/GARAGE / SOUTH WEST | NON-HOMOGENEOUS, NON-FRIABLE, OFF WHT, STUCCO, COATED MATERIAL | 0 | 0 | 0 | 0 | CELLULOSE 2%, CALCITE, QUARTZ, BINDER |
| 9707-0805A | CT | 7/30/97 | 7D-N/SANITARY / NORTH EAST | NON-HOMOGENEOUS, NON-FRIABLE, OFF WHT, STUCCO, COATED MATERIAL | 0 | 0 | 0 | 0 | CELLULOSE 2%, CALCITE, QUARTZ, BINDER |
| 9707-0805B | CT | 7/30/97 | 7D-N/SANITARY / NORTH EAST | NON-HOMOGENEOUS, NON-FRIABLE, OFF WHT, STUCCO, CEMENTITIOUS | <1 | 0 | 0 | <1 | CELLULOSE 2%, CALCITE, QUARTZ, BINDER |
| 9707-0806A | CT | 7/30/97 | 7D-N/SANITARY / SOUTH EAST | NON-HOMOGENEOUS, NON-FRIABLE, OFF WHT, STUCCO, COATED MATERIAL | <1 | 0 | 0 | <1 | CELLULOSE 2%, CALCITE, QUARTZ, BINDER |
| 9707-0806B | CT | 7/30/97 | 7D-N/SANITARY / SOUTH EAST | NON-HOMOGENEOUS, NON-FRIABLE, OFF WHT, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | CELLULOSE 2%, CALCITE, QUARTZ, BINDER |
| 9707-0807A | CT | 7/30/97 | 7D-N/SANITARY / SOUTH CENTER | NON-HOMOGENEOUS, NON-FRIABLE, OFF WHT, STUCCO, COATED MATERIAL | <1 | 0 | 0 | <1 | CELLULOSE 2%, CALCITE, QUARTZ, BINDER |
| 9707-0807B | CT | 7/30/97 | 7D-N/SANITARY / SOUTH CENTER | NON-HOMOGENEOUS, NON-FRIABLE, OFF WHT, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | CELLULOSE 2%, CALCITE, QUARTZ, BINDER |
| 9707-0808A | CT | 7/30/97 | 14D-P/FD. SERVICES / NORTH WEST | NON-HOMOGENEOUS, NON-FRIABLE, OFF WHT, STUCCO, COATED MATERIAL | 0 | 0 | 0 | 0 | CELLULOSE 2%, CALCITE, QUARTZ, BINDER |
| 9707-0808B | CT | 7/30/97 | 14D-P/FD. SERVICES / NORTH WEST | NON-HOMOGENEOUS, NON-FRIABLE, OFF WHT, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | CELLULOSE 2%, CALCITE, QUARTZ, BINDER |

Signature of Lab Supervisor: _____ Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
This report relates to only the material tested.
This report is not used by the LAUSD/EHSB to claim product endorsement by NVLAP or any agency of the U.S. government.

# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: San Pedro SR  CODE: 8850  PROJECT: DEF. MAINT.

SAMPLED BY: P. Flores  DEPT.: ATU19  TEL. NO.: 763-1450  DATE SAMPLED: 7-21-97

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. **DO NOT USE PENCIL** (Rev. 4/95)

Original to EHSB lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) | |
|---|---|---|---|---|---|---|---|---|
| 9707-0809 | 34SP | -14DAP | Food Service | EXTERIOR | N\|EAST | STUCCO | YES (NO) | 2% |
| 9707-0810 | 35SP | ↓ | ↓ | ↓ | S\|CENTER | ↓ | YES (NO) | |
| 9707-0811 | 36SP | X2383P | AA 2383 | | S\|CENTER | | YES (NO) | |
| 9707-0812 | 37SP | ↓ | ↓ | | E\|CENTER | | YES (NO) | 2% |
| 9707-0813 | 38SP | ↓ | ↓ | | N\|EAST | | YES (NO) | |
| 9707-0814 | 39SP | X0347L | AA 347 | | S\|EAST | | YES (NO) | |
| 9707-0815 | 40SP | ↓ | ↓ | | N\|WEST | | YES (NO) | |
| 9707-0816 | 41SP | ↓ | ↓ | | N\|CENTER | | YES (NO) | |
| 9707-0817 | 42SP | X244J | AA 244 | | N\|CENTER | | YES (NO) | |
| 9707-0818 | 43SP | ↓ | ↓ | | S\|WEST | | YES (NO) | |
| 9707-0819 | 44SP | ↓ | ↓ | ↓ | E\|CENTER | ↓ | YES (NO) | |

TODY:

| DATE: | TIME: | NAME: PRINT & SIGN: | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 7-21-97 | 1:30pm | Paul Flores, PF | ATU 19 | 11 |
| 7-22-97 | 1PM | Brett Koontz Brett Koontz | EHSB | 11 |
| | | | | |
| | | | | |
| | | | | |

Los Angeles Unified School District
Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 7/21/97


| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 9707-0809A | RPC BK | 7/28/97 | 14DP FD. SERV. EXTERIOR / N/EAST | NON-HOMOGENEOUS, NON-FRIABLE, BEIGE, STUCCO, CEMENTITIOUS W/PAINT | 2 | 0 | 0 | 2 | QUARTZ, BINDER |
| 9707-0809B | RPC | 7/28/97 | 14DP FD. SERV. EXTERIOR / N/EAST | NON-HOMOGENEOUS, NON-FRIABLE, GREY, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | QUARTZ, CALCITE, GYPSUM |
| 9707-0810A | RPC | 7/28/97 | 14DP FD. SERV. EXTERIOR / SOUTH CENTER | NON-HOMOGENEOUS, NON-FRIABLE, BEIGE, STUCCO, CEMENTITIOUS W/PAINT | 0 | 0 | 0 | 0 | QUARTZ, CALCITE, GYPSUM |
| 9707-0810B | RPC | 7/28/97 | 14DP FD. SERV. EXTERIOR / SOUTH CENTER | NON-HOMOGENEOUS, NON-FRIABLE, GREY, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | |
| 9707-0811A | RPC | 7/28/97 | 2383P/AA2383 / SOUTH CENTER | NON-HOMOGENEOUS, NON-FRIABLE, BEIGE, STUCCO, CEMENTITIOUS W/PAINT | 0 | 0 | 0 | 0 | CELLULOSE 1%, QUARTZ, BINDER |
| 9707-0811B | RPC | 7/28/97 | 2383P/AA2383 / SOUTH CENTER | NON-HOMOGENEOUS, NON-FRIABLE, GREY, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | QUARTZ, BINDER |
| 9707-0812A | RPC BK | 7/28/97 | 2383P/AA2383 / EAST CENTER | NON-HOMOGENEOUS, NON-FRIABLE, BEIGE, STUCCO, CEMENTITIOUS W/PAINT | 2 | 0 | 0 | 2 | QUARTZ, BINDER, CALCITE, GYPSUM |
| 9707-0812B | RPC | 7/28/97 | 2383P/AA2383 / EAST CENTER | NON-HOMOGENEOUS, NON-FRIABLE, GREY, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | QUARTZ, CALCITE, GYPSUM |
| 9707-0813A | RPC | 7/28/97 | 2383P/AA2383 / NORTH EAST | NON-HOMOGENEOUS, NON-FRIABLE, BEIGE, STUCCO, CEMENTITIOUS W/PAINT | 0 | 0 | 0 | 0 | CELLULOSE 1%, QUARTZ, CALCITE, GYPSUM, BINDER |
| 9707-0813B | RPC | 7/28/97 | 2383P/AA2383 / NORTH EAST | NON-HOMOGENEOUS, NON-FRIABLE, GREY, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | CELLULOSE 1%, QUARTZ, CALCITE, GYPSUM |
| 9707-0814A | RPC | 7/28/97 | X0347L/AA347 / SOUTH EAST | NON-HOMOGENEOUS, NON-FRIABLE, BEIGE W/GRA, STUCCO, CEMENTITIOUS W/PAINT | 0 | 0 | 0 | 0 | CELLULOSE 1%, QUARTZ, CALCITE, GYPSUM, BINDER |

Signature of Lab Supervisor: DeAnne Bryant  Signature of Analyst: Rosalba A. Contreras
Batt I. Kim

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
This report relates to only the material tested.
This report is not used by the LAUSD/EHSB

Los Angeles Unified School District
Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 7/21/97


| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 9707-0814B | RPC | 7/28/97 | X0347L/AA347 / SOUTH EAST | NON-HOMOGENEOUS, NON-FRIABLE, GREY, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | QUARTZ, CALCITE, GYPSUM |
| 9707-0815A | RPC | 7/28/97 | X0347L/AA347 / NORTH WEST | NON-HOMOGENEOUS, NON-FRIABLE, BEIG W GRAY, STUCCO, CEMENTITIOUS W/PAINT | 0 | 0 | 0 | 0 | QUARTZ, CALCITE, GYPSUM, BINDER |
| 9707-0815B | RPC | 7/28/97 | X0347L/AA347 / NORTH WEST | NON-HOMOGENEOUS, NON-FRIABLE, GREY, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | QUARTZ, CALCITE, GYPSUM |
| 9707-0816A | RPC | 7/28/97 | X0347L/AA347 / NORTH CENTER | NON-HOMOGENEOUS, NON-FRIABLE, GREY W BEIG, STUCCO, CEMENTITIOUS W/PAINT | 0 | 0 | 0 | 0 | QUARTZ, CALCITE, GYPSUM, BINDER |
| 9707-0816B | RPC | 7/28/97 | X0347L/AA347 / NORTH CENTER | NON-HOMOGENEOUS, NON-FRIABLE, GREY, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | QUARTZ, CALCITE, GYPSUM |
| 07-0817A | RPC | 7/28/97 | X244J/AA244 / NORTH CENTER | NON-HOMOGENEOUS, NON-FRIABLE, GRAY W BEIG, STUCCO, CEMENTITIOUS W/PAINT | 0 | 0 | 0 | 0 | QUARTZ, CALCITE, GYPSUM, BINDER |
| 9707-0817B | RPC | 7/28/97 | X244J/AA244 / NORTH CENTER | NON-HOMOGENEOUS, NON-FRIABLE, GREY, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | QUARTZ, CALCITE, GYPSUM |
| 9707-0818A | RPC | 7/28/97 | X244J/AA244 / SOUTH WEST | NON-HOMOGENEOUS, NON-FRIABLE, GREY, BEIG, STUCCO, CEMENTITIOUS W/PAINT | 0 | 0 | 0 | 0 | QUARTZ, CALCITE, GYPSUM, BINDER |
| 9707-0818B | RPC | 7/28/97 | X244J/AA244 EXTERIOR / SOUTH WEST | NON-HOMOGENEOUS, NON-FRIABLE, GREY, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | QUARTZ, CALCITE, GYPSUM |
| 9707-0819A | RPC | 7/28/97 | X244J/AA244 EXTERIOR / EAST/CENTER | NON-HOMOGENEOUS, NON-FRIABLE, GREY/BEIGE, STUCCO, CEMENTITIOUS W/PAINT | 0 | 0 | 0 | 0 | 1% CELLULOSE, BINDER, QUARTZ, CALCITE, GYPSUM |
| 9707-0819B | RPC | 7/28/97 | X244J/AA244 EXTERIOR / EAST/CENTER | NON-HOMOGENEOUS, NON-FRIABLE, GREY, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | 1% CELLULOSE, QUARTZ, CALCITE, GYPSUM |

Signature of Lab Supervisor: Deelynne Bryant Signature of Analyst: Lorena A. Carrubias
Ruth F. Ikoma

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
This report relates to only the material tested.
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# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: San Pedro SR  CODE: 8850  PROJECT: DEF MAINT ~~BB-Paint~~

SAMPLED BY: P. Flores  DEPT.: ATU19  TEL. NO.: 763-1450  DATE SAMPLED: 7-21-97

Fill in all information Legibly and Precisely.  Sampler should make a copy before submitting to the lab.  ***DO NOT USE PENCIL***  (Rev. 4/95)

Original to EHSB lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 9707-0820 | 45SP | --1CBJ | Industrial Arts | Exterior | N\|East | Dash coat | YES (NO) |
| 9707-0821 | 46SP | ↓ | ↓ | ↓ | N\|Center | ↓ | YES (NO) |
| 9707-0822 | 47SP | ↓ | ↓ | | S\|West | ↓ | YES (NO) |
| 9707-0823 | 48SP | X1007M | A 1007 | | N\|West | Stucco | YES (NO) |
| 9707-0824 | 49SP | X1007M | A 1007 | | W\|Center | | YES (NO) |
| 9707-0825 | 50SP | ↓ | ↓ | | S\|East | | YES (NO) |
| 9707-0826 | 51SP | X2082P | A 2082 | | N\|East | | YES (NO) |
| 9707-0827 | 52SP | ↓ | ↓ | | N\|West | | YES (NO) |
| 9707-0828 | 53SP | ↓ | ↓ | | S\|East | ↓ | YES (NO) 2% |
| 9707-0829 | 54SP | -11B-N | Flammable Storage | | N\|West | Dash coat | YES (NO) |
| 9707-0830 | 55SP | ↓ | ↓ | ↓ | N\|East | ↓ | YES (NO) |

TODY:

| DATE: | TIME: | NAME: PRINT & SIGN: | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 7-21-97 | 1:30pm | Paul Flores, Paul Z | ATU 19 | 11 |
| 7-22-97 | 1 PM | Brett Koontz Brett Koontz | EHSB | 11 |
| | | | | |
| | | | | |
| | | | | |

Los Angeles Unified School District
Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 7/22/97


| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 9707-0820 | RPC | 7/28/97 | 1C-J, IND. ART, EXTERIOR / NORTH/EAST | NON-HOMOGENEOUS, NON-FRIABLE, GREY/BEIGE, DASHCOAT, CEMENTITIOUS | 0 | 0 | 0 | 0 | 1% CELLULOSE, QUARTZ, CALCITE, GYPSUM, BINDER |
| 9707-0821A | RPC | 7/28/97 | 1C-J, IND. ART, EXTERIOR / NORTH/CENTER | NON-HOMOGENEOUS, NON-FRIABLE, GREY/YELLOW, DASHCOAT, CEMENTITIOUS W/PAINT | 0 | 0 | 0 | 0 | 1% CELLULOSE, QUARTZ, CALCITE, GYPSUM, BINDER |
| 9707-0821B | RPC | 7/28/97 | 1C-J, IND. ART, EXTERIOR / NORTH/CENTER | NON-HOMOGENEOUS, NON-FRIABLE, GREY, DASHCOAT, CEMENTITIOUS | 0 | 0 | 0 | 0 | QUARTZ, CALCITE, GYPSUM |
| 9707-0822A | RPC | 7/28/97 | 1C-J, IND. ART, EXTERIOR / SOUTH/WEST | NON-HOMOGENEOUS, NON-FRIABLE, GREY/YELLOW, DASHCOAT, CEMENTITIOUS W/PAINT | 0 | 0 | 0 | 0 | QUARTZ, CALCITE, GYPSUM, BINDER |
| 9707-0822B | RPC | 7/28/97 | 1C-J, IND. ART, EXTERIOR / SOUTH/WEST | NON-HOMOGENEOUS, NON-FRIABLE, GREY, DASHCOAT, CEMENTITIOUS | 0 | 0 | 0 | 0 | 1% CELLULOSE, QUARTZ, CALCITE, GYPSUM |
| 9707-0823A | RPC | 7/28/97 | X1007M, A1007, EXTERIOR / NORTH/WEST | NON-HOMOGENEOUS, NON-FRIABLE, GREY/YELLOW, STUCCO, CEMENTITIOUS W/PAINT | 0 | 0 | 0 | 0 | 1% CELLULOSE, QUARTZ, CALCITE, GYPSUM, BINDER |
| 9707-0823B | RPC | 7/28/97 | X1007M, A1007, EXTERIOR / NORTH/WEST | NON-HOMOGENEOUS, NON-FRIABLE, GREY, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | 1% CELLULOSE, QUARTZ, CALCITE, GYPSUM |
| 9707-0824A | RPC | 7/29/97 | X1007M, A1007, EXTERIOR / WEST/CENTER | NON-HOMOGENEOUS, NON-FRIABLE, GREY, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | 1% CELLULOSE, QUARTZ, CALCITE, GYPSUM |
| 9707-0824B | RPC | 7/29/97 | X1007M, A1007, EXTERIOR / WEST/CENTER | NON-HOMOGENEOUS, NON-FRIABLE, GREY, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | 1% CELLULOSE, QUARTZ, CALCITE, GYPSUM, BINDER |
| 9707-0825A | RPC | 7/29/97 | X1007M, A1007, EXTERIOR / SOUTH/EAST | NON-HOMOGENEOUS, NON-FRIABLE, GREY/YELLOW, STUCCO, CEMENTITIOUS W/PAINT | 0 | 0 | 0 | 0 | 1% CELLULOSE, QUARTZ, CALCITE, GYPSUM, BINDER |
| 9707-0825B | RPC | 7/29/97 | X1007M, A1007, EXTERIOR / SOUTH/EAST | NON-HOMOGENEOUS, NON-FRIABLE, GREY, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | 1% CELLULOSE, QUARTZ, CALCITE, GYPSUM |

Signature of Lab Supervisor: Deelinne Bryant Signature of Analyst: Rosalia A. Contreras

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
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Los Angeles Unified School District
Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 7/22/97


| AUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 9707-0826A | RPC | 7/29/97 | X2082P, A2082, EXTERIOR / NORTH/EAST | NON-HOMOGENEOUS, NON-FRIABLE, GREY/YELLOW, STUCCO, CEMENTITIOUS W/PAINT | 0 | 0 | 0 | 0 | BINDER, QUARTZ, CALCITE, GYPSUM |
| 9707-0826B | RPC | 7/29/97 | X2082P, A2082, EXTERIOR / NORTH/EAST | NON-HOMOGENEOUS, NON-FRIABLE, GREY, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | 1% CELLULOSE, QUARTZ, CALCITE, BINDER |
| 9707-0827A | RPC | 7/29/97 | X2082P, A2082, EXTERIOR / NORTH/WEST | NON-HOMOGENEOUS, NON-FRIABLE, GREY/YELLOW, STUCCO, CEMENTITIOUS W/PAINT | 0 | 0 | 0 | 0 | 1% CELLULOSE, QUARTZ, CALCITE, BINDER, GYPSUM |
| 9707-0827B | RPC | 7/29/97 | X2082P, A2082, EXTERIOR / NORTH/WEST | NON-HOMOGENEOUS, NON-FRIABLE, GREY, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | QUARTZ, CALCITE, GYPSUM |
| 9707-0828A | RPC | 7/29/97 | X2082P, A2082, EXTERIOR / SOUTH/EAST | NON-HOMOGENEOUS, NON-FRIABLE, GREY/YELLOW, STUCCO, CEMENTITIOUS W/PAINT | 2 | 0 | 0 | 2 | 1% CELLULOSE, BINDER, QUARTZ, CALCITE, GYPSUM |
| 9707-0828B | RPC | 7/29/97 | X2082P, A2082, EXTERIOR / SOUTH/EAST | NON-HOMOGENEOUS, NON-FRIABLE, GREY, STUCCO, CEMENTITIOUS | 0 | 0 | 0 | 0 | QUARTZ, CALCITE, GYPSUM |
| 9707-0829A | RPC | 7/29/97 | 11B-N, FLMBLE.STRG, EXTER / NORTH/WEST | NON-HOMOGENEOUS, NON-FRIABLE, GREY/ORANGE, DASHCOAT, CEMENTITIOUS W/PAINT | 0 | 0 | 0 | 0 | QUARTZ, CALCITE, GYPSUM, BINDER |
| 9707-0829B | RPC | 7/29/97 | 11B-N, FLMBLE.STRG, EXTER / NORTH/WEST | NON-HOMOGENEOUS, NON-FRIABLE, GREY, DASHCOAT, CEMENTITIOUS | 0 | 0 | 0 | 0 | QUARTZ, CALCITE, GYPSUM |
| 9707-0830A | RPC | 7/29/97 | 11B-N, FLMBLE.STRG, EXTER / NORTH/EAST | NON-HOMOGENEOUS, NON-FRIABLE, GREY/YELLOW, DASHCOAT, CEMENTITIOUS W/PAINT | 0 | 0 | 0 | 0 | QUARTZ, CALCITE, GYPSUM |
| 9707-0830B | RPC | 7/29/97 | 11B-N, FLMBLE.STRG, EXTER / NORTH/EAST | NON-HOMOGENEOUS, NON-FRIABLE, GREY, DASHCOAT, CEMENTITIOUS | 0 | 0 | 0 | 0 | QUARTZ, CALCITE, GYPSUM |

Signature of Lab Supervisor: Deshanne Bryant Signature of Analyst: Rosalie A. Carrubba

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
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ENCORP ENVIRONMENTAL MANAGEMENT & SERVICES

615 NASH STREET, SUITE 203, EL SEGUNDO, CALIFORNIA 90245 • (310) 640-9811 • FAX (310) 640-9804

CLIENT: LOS ANGELES UNIFIED SCHOOL DISTRICT

CLIENT ADDRESS: 1240 SOUTH NAOMI AVENUE, LOS ANGELES, CALIFORNIA 90021

CLIENT PROJECT NUMBER: N/A

CLIENT PROJECT NAME: SAN PEDRO HIGH SCHOOL TECHNOLOGY UPGRADE PROJECT/1001 WEST 15TH STREET SAN PEDRO, CA 90731

LABORATORY REFERENCE NUMBER: 026506/P70614.L26

DATE SAMPLE(S) RECEIVED: 12/09/97

DATE SAMPLE(S) ANALYZED: 12/15/97

REPORT DATE: 12/18/97

## LABORATORY TEST REPORT

## ASBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | ASBESTOS (%) | NON-ASBESTOS (%) | |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | | | ANALYZED BY |
| 110442 | E71203TA-01 | 12/03/97 | INDUSTRIAL ARTS BLDG. INT. WALLS | BEIGE, PLASTER WALL/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110443 | E71203TA-02 | 12/03/97 | INDUSTRIAL ARTS BLDG. INT. WALLS | BEIGE, PLASTER WALL/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110444 | E71203TA-03 | 12/03/97 | INDUSTRIAL ARTS BLDG. INT. WALLS | BEIGE, PLASTER WALL/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110445 | E71203TA-04 | 12/03/97 | INDUSTRIAL ARTS BLDG., EXT. WALLS | LIGHT BROWN, STUCCO/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110446 | E71203TA-05 | 12/03/97 | INDUSTRIAL ARTS BLDG., EXT. WALLS | LIGHT BROWN, STUCCO/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110447 | E71203TA-06 | 12/03/97 | INDUSTRIAL ARTS BLDG., EXT. WALLS | LIGHT BROWN, STUCCO/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110448 | E71203TA-07 | 12/03/97 | SHOP BLDG., TOILET, ST. LEVEL CEILINGS | BEIGE, CEILING TILE/ (FR) | ND | 40% MINERAL WOOL<br>15% CELLULOSE<br>45% MATRIX (non-fibrous) | FM |

Reviewed and Approved



NOTES: ND = Asbestos is not quantifiable below the method detection limit of one (1) percent: Amphibole asbestos includes amosite, crocidolite, anthophyllite, tremolite and actinolite. (FR) = Friable; (NF) = Non-Friable - Condition of sample as received by the laboratory: Our policy is to retain all samples for a period of three years. Accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under NVLAP Lab Code 200013-0. Results reported pertain to sample(s) as submitted and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purposes without prior written authorization is prohibited. In addition, this report is not to be used to claim product endorsement by NVLAP or any agency of the U. S. Government. Where applicable, layers or "sub - samples" are reported and the Total Asbestos % represents the composite percentage of all sample layers.

ENCORP ENVIRONMENTAL MANAGEMENT & SERVICES
615 NASH STREET, SUITE 203, EL SEGUNDO, CALIFORNIA 90245 • (310) 640-9811 • FAX (310) 640-9804

CLIENT: LOS ANGELES UNIFIED SCHOOL DISTRICT
CLIENT ADDRESS: 1240 SOUTH NAOMI AVENUE, LOS ANGELES, CALIFORNIA 90021
CLIENT PROJECT NUMBER: N/A
CLIENT PROJECT NAME: SAN PEDRO HIGH SCHOOL-TECHNOLOGY UPGRADE PROJECT/1001 WEST 15TH STREET SAN PEDRO, CA 90731

LABORATORY REFERENCE NUMBER: 026506/P70614.1.26
DATE SAMPLE(S) RECEIVED: 12/09/97
DATE SAMPLE(S) ANALYZED: 12/15/97
REPORT DATE: 12/18/97

## LABORATORY TEST REPORT
## ASBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | ASBESTOS (%) | NON-ASBESTOS (%) | |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | | | ANALYZED BY |
| 110449 | E71203TA-08 | 12/03/97 | SHOP BLDG., TOILET, ST. LEVEL CEILINGS | BEIGE, CEILING TILE/ (FR) | ND | 60% MINERAL WOOL<br>10% CELLULOSE<br>30% MATRIX (non-fibrous) | FM |
| 110450 | E71203TA-09 | 12/03/97 | SHOP BLDG., TOILET, ST. LEVEL CEILINGS | BEIGE, CEILING TILE/ (FR) | ND | 55% MINERAL WOOL<br>10% CELLULOSE<br>35% MATRIX (non-fibrous) | FM |
| 110451 | E71203TA-10 | 12/03/97 | SHOP BLDG., ST. LEVEL, TOILET CEILINGS | BROWN, HARD MASTIC/ (NF) | 3% ANTHOPHYLLITE | 97% MATRIX (non-fibrous) | FM |
| 110452 | E71203TA-11 | 12/03/97 | SHOP BLDG., ST. LEVEL, TOILET CEILINGS | BROWN, HARD MASTIC/ (NF) | 5% ANTHOPHYLLITE | 95% MATRIX (non-fibrous) | FM |
| 110453 | E71203TA-12 | 12/03/97 | SHOP BLDG., ST. LEVEL, TOILET CEILINGS | BROWN, HARD MASTIC/ (NF) | 3% ANTHOPHYLLITE | 97% MATRIX (non-fibrous) | FM |
| 110454 | E71203TA-13 | 12/03/97 | SHOP BLDG., ST. LEVEL, TOILET CEILINGS | BEIGE, DRYWALL/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110455 | E71203TA-14 | 12/03/97 | SHOP BLDG., ST. LEVEL, TOILET CEILINGS | BEIGE, DRYWALL/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |

Reviewed and Approved



NOTES: ND = Asbestos is not quantifiable below the method detection limit of one (1) percent: Amphibole asbestos includes amosite, crocidolite, anthophyllite, tremolite and actinolite. (FR) = Friable; (NF) = Non-Friable - Condition of sample as received by the laboratory: Our policy is to retain all samples for a period of three years. Accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under NVLAP Lab Code 200013-0. Results reported pertain to sample(s) as submitted and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purposes without prior written authorization is prohibited. In addition, this report is not to be used to claim product endorsement by NVLAP or any agency of the U. S. Government. Where applicable, layers or "sub - samples" are reported and the Total Asbestos % represents the composite percentage of all sample layers.

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CLIENT: LOS ANGELES UNIFIED SCHOOL DISTRICT
CLIENT ADDRESS: 1240 SOUTH NAOMI AVENUE, LOS ANGELES, CALIFORNIA 90021
CLIENT PROJECT NUMBER: N/A
CLIENT PROJECT NAME: SAN PEDRO HIGH SCHOOL-TECHNOLOGY UPGRADE PROJECT/1001 WEST 15TH STREET SAN PEDRO, CA 90731

LABORATORY REFERENCE NUMBER: 026506/P70614.L26
DATE SAMPLE(S) RECEIVED: 12/09/97
DATE SAMPLE(S) ANALYZED: 12/16/97
REPORT DATE: 12/18/97

## LABORATORY TEST REPORT
## ASBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | ASBESTOS (%) | NON-ASBESTOS (%) | |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | | | ANALYZED BY |
| 110456 | E71203TA-15 | 12/03/97 | SHOP BLDG., ST. LEVEL, TOILET CEILINGS | BEIGE, DRYWALL/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110457 | E71203TA-16 | 12/03/97 | SHOP BLDG., ST. LEVEL, TOILET CEILINGS | BEIGE, DRYWALL MUD/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110458 | E71203TA-17 | 12/03/97 | SHOP BLDG., ST. LEVEL, TOILET CEILINGS | BEIGE, DRYWALL MUD/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110459 | E71203TA-18 | 12/03/97 | SHOP BLDG., ST. LEVEL, TOILET CEILINGS | BEIGE, DRYWALL MUD/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110460 | E71203TA-19 | 12/03/97 | SHOP BLDG., GROUND LEVEL CEILINGS, RM. 173 | BEIGE, CEILING TILE/ (FR) | ND | 30% MINERAL WOOL<br>10% CELLULOSE<br>60% MATRIX (non-fibrous) | FM |
| 110461 | E71203TA-20 | 12/03/97 | SHOP BLDG., GROUND LEVEL CEILINGS, RM. 173 | BEIGE, CEILING TILE/ (FR) | ND | 40% MINERAL WOOL<br>20% CELLULOSE<br>40% MATRIX (non-fibrous) | FM |

Reviewed and Approved



NOTES: ND = Asbestos is not quantifiable below the method detection limit of one (1) percent: Amphibole asbestos includes amosite, crocidolite, anthophyllite, tremolite and actinolite. (FR) = Friable; (NF) = Non-Friable - Condition of sample as received by the laboratory: Our policy is to retain all samples for a period of three years. Accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under NVLAP Lab Code 200013-0. Results reported pertain to sample(s) as submitted and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purposes without prior written authorization is prohibited. In addition, this report is not to be used to claim product endorsement by NVLAP or any agency of the U. S. Government. Where applicable, layers or "sub - samples" are reported and the Total Asbestos % represents the composite percentage of all sample layers.

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CLIENT: LOS ANGELES UNIFIED SCHOOL DISTRICT
CLIENT ADDRESS: 1240 SOUTH NAOMI AVENUE, LOS ANGELES, CALIFORNIA 90021
CLIENT PROJECT NUMBER: N/A
CLIENT PROJECT NAME: SAN PEDRO HIGH SCHOOL-TECHNOLOGY UPGRADE PROJECT/1001 WEST 15TH STREET SAN PEDRO, CA 90731

LABORATORY REFERENCE NUMBER: 026506/P70614.L26
DATE SAMPLE(S) RECEIVED: 12/09/97
DATE SAMPLE(S) ANALYZED: 12/16/97
REPORT DATE: 12/18/97

## LABORATORY TEST REPORT
## ASBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | ASBESTOS (%) | NON-ASBESTOS (%) | |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | | | ANALYZED BY |
| 110462 | E71203TA-21 | 12/03/97 | SHOP BLDG., GROUND LEVEL, RM. 173, CEILINGS | BEIGE, CEILING TILE/ (FR) | ND | 35% MINERAL WOOL<br>15% CELLULOSE<br>50% MATRIX (non-fibrous) | FM |
| 110463 | E71203TA-22 | 12/03/97 | SHOP BLDG., GROUND LEVEL, RM. 173, CEILINGS | BROWN, HARD MASTIC/ (NF) | 6% ANTHOPHYLLITE | 94% MATRIX (non-fibrous) | FM |
| 110464 | E71203TA-23 | 12/03/97 | SHOP BLDG., GROUND LEVEL, RM. 173, CEILINGS | BROWN, HARD MASTIC/ (NF) | 3% ANTHOPHYLLITE | 97% MATRIX (non-fibrous) | FM |
| 110465 | E71203TA24 | 12/03/97 | SHOP BLDG., GROUND LEVEL, RM. 173, CEILINGS | BROWN, HARD MASTIC/ (NF) | 5% ANTHOPHYLLITE | 95% MATRIX (non-fibrous) | FM |
| 110466 | E71203TA-25 | 12/03/97 | SHOP BLDG., GROUND LEVEL, RM. 173, CEILINGS | BEIGE, DRYWALL/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |

Reviewed and Approved



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CLIENT PROJECT NUMBER: N/A
CLIENT PROJECT NAME: SAN PEDRO HIGH SCHOOL-TECHNOLOGY UPGRADE PROJECT/1001 WEST 15TH STREET SAN PEDRO, CA 90731

LABORATORY REFERENCE NUMBER: 026506/P70614.L26
DATE SAMPLE(S) RECEIVED: 12/09/97
DATE SAMPLE(S) ANALYZED: 12/16/97
REPORT DATE: 12/18/97

## LABORATORY TEST REPORT

## ASBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | ASBESTOS (%) | NON-ASBESTOS (%) | ANALYZED BY |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | | | |
| 110467 | E71203TA-26 | 12/03/97 | SHOP BLDG., GROUND LEVEL, RM. 173, CEILINGS | BEIGE, DRYWALL/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110468 | E71203TA-27 | 12/03/97 | SHOP BLDG., GROUND LEVEL, RM. 173, CEILINGS | BEIGE, DRYWALL/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110469 | E71203TA-28 | 12/03/97 | SHOP BLDG., GROUND LEVEL, RM. 173, CEILINGS | BEIGE, DRYWALL MUD/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110470 | E71203TA-29 | 12/03/97 | SHOP BLDG., GROUND LEVEL, RM. 173, CEILINGS | BEIGE, DRYWALL MUD/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110471 | E71203TA-30 | 12/03/97 | SHOP BLDG., GROUND LEVEL, RM. 173, CEILINGS | BEIGE, DRYWALL MUD/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110472 | E71203TA-31 | 12/03/97 | SHOP BLDG., RM. 173, SOFFIT | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110473 | E71203TA-32 | 12/03/97 | SHOP BLDG., RM. 173, SOFFIT | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |

Reviewed and Approved



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CLIENT PROJECT NUMBER: N/A
CLIENT PROJECT NAME: SAN PEDRO HIGH SCHOOL-TECHNOLOGY UPGRADE PROJECT/1001 WEST 15TH STREET SAN PEDRO, CA 90731

LABORATORY REFERENCE NUMBER: 026506/P70614.L26
DATE SAMPLE(S) RECEIVED: 12/09/97
DATE SAMPLE(S) ANALYZED: 12/16/97
REPORT DATE: 12/18/97

## LABORATORY TEST REPORT
## ASBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | ASBESTOS (%) | NON-ASBESTOS (%) | |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | | | ANALYZED BY |
| 110467 | E71203TA-26 | 12/03/97 | SHOP BLDG., GROUND LEVEL., RM. 173, CEILINGS | BEIGE, DRYWALL/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110468 | E71203TA-27 | 12/03/97 | SHOP BLDG., GROUND LEVEL, RM. 173, CEILINGS | BEIGE, DRYWALL/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110469 | E71203TA-28 | 12/03/97 | SHOP BLDG., GROUND LEVEL, RM. 173, CEILINGS | BEIGE, DRYWALL MUD/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110470 | E71203TA-29 | 12/03/97 | SHOP BLDG., GROUND LEVEL, RM. 173, CEILINGS | BEIGE, DRYWALL MUD/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110471 | E71203TA-30 | 12/03/97 | SHOP BLDG., GROUND LEVEL, RM. 173, CEILINGS | BEIGE, DRYWALL MUD/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110472 | E71203TA-31 | 12/03/97 | SHOP BLDG., RM. 173, SOFFIT | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110473 | E71203TA-32 | 12/03/97 | SHOP BLDG., RM. 173, SOFFIT | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |

Reviewed and Approved



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CLIENT PROJECT NUMBER: N/A
CLIENT PROJECT NAME: SAN PEDRO HIGH SCHOOL-TECHNOLOGY UPGRADE PROJECT/1001 WEST 15TH STREET SAN PEDRO, CA 90731

LABORATORY REFERENCE NUMBER: 026506/P70614.L26
DATE SAMPLE(S) RECEIVED: 12/09/97
DATE SAMPLE(S) ANALYZED: 12/16/97
REPORT DATE: 12/18/97

## LABORATORY TEST REPORT
## ASBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | ASBESTOS (%) | NON-ASBESTOS (%) | |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | | | ANALYZED BY |
| 110474 | E71203TA-33 | 12/03/97 | SHOP BLDG., RM. 173, SOFFIT | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110475 | E71203TA-34 | 12/03/97 | BLDG. AA 2384, B13-14, EXT. | BROWN, STUCCO/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110476 | E71203TA-35 | 12/03/97 | BLDG. AA 2384, B13-14, EXT. | BROWN, STUCCO/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110477 | E71203TA-36 | 12/03/97 | BLDG. AA 2384, B13-14, EXT. | BROWN, STUCCO/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110478 | E71203TA-37 | 12/03/97 | BLDG. B16-17, EXT. WALL | BROWN, STUCCO/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110479 | E71203TA-38 | 12/03/97 | BLDG. B16-17, EXT. WALL | BROWN, STUCCO/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110480 | E71203TA-39 | 12/03/97 | BLDG. B16-17, EXT. WALL | BROWN, STUCCO/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110481A | E71203TA-40 | 12/03/97 | HOME ECON. BLDG., 2ND FLOOR, FLOOR | BROWN, FLOOR TILE/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110481B | E71203TA-40 | 12/03/97 | HOME ECON. BLDG., 2ND FLOOR, FLOOR | BLACK, MASTIC/ (NF) | 5% CHRYSOTILE | 95% MATRIX (non-fibrous) | FM |

Reviewed and Approved



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CLIENT ADDRESS: 1240 SOUTH NAOMI AVENUE, LOS ANGELES, CALIFORNIA 90021
CLIENT PROJECT NUMBER: N/A
CLIENT PROJECT NAME: SAN PEDRO HIGH SCHOOL TECHNOLOGY UPGRADE PROJECT/1001 WEST 15TH STREET SAN PEDRO, CA 90731

LABORATORY REFERENCE NUMBER: 026506/P70614.L26
DATE SAMPLE(S) RECEIVED: 12/09/97
DATE SAMPLE(S) ANALYZED: 12/15/97
REPORT DATE: 12/18/97

## LABORATORY TEST REPORT

## ASBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | ASBESTOS (%) | NON-ASBESTOS (%) | |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | | | ANALYZ BY |
| 110442 | E71203TA-01 | 12/03/97 | INDUSTRIAL ARTS BLDG. INT. WALLS | BEIGE, PLASTER WALL/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110443 | E71203TA-02 | 12/03/97 | INDUSTRIAL ARTS BLDG. INT. WALLS | BEIGE, PLASTER WALL/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110444 | E71203TA-03 | 12/03/97 | INDUSTRIAL ARTS BLDG. INT. WALLS | BEIGE, PLASTER WALL/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110445 | E71203TA-04 | 12/03/97 | INDUSTRIAL ARTS BLDG., EXT. WALLS | LIGHT BROWN, STUCCO/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110446 | E71203TA-05 | 12/03/97 | INDUSTRIAL ARTS BLDG., EXT. WALLS | LIGHT BROWN, STUCCO/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110447 | E71203TA-06 | 12/03/97 | INDUSTRIAL ARTS BLDG., EXT. WALLS | LIGHT BROWN, STUCCO/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110448 | E71203TA-07 | 12/03/97 | SHOP BLDG., TOILET, ST. LEVEL CEILINGS | BEIGE, CEILING TILE/ (FR) | ND | 40% MINERAL WOOL<br>15% CELLULOSE<br>45% MATRIX (non-fibrous) | FM |

Reviewed and Approved



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CLIENT PROJECT NUMBER: N/A
CLIENT PROJECT NAME: SAN PEDRO HIGH SCHOOL-TECHNOLOGY UPGRADE PROJECT/1001 WEST 15TH STREET SAN PEDRO, CA 90731

LABORATORY REFERENCE NUMBER: 026506/P70614.L26
DATE SAMPLE(S) RECEIVED: 12/09/97
DATE SAMPLE(S) ANALYZED: 12/16/97
REPORT DATE: 12/18/97

## LABORATORY TEST REPORT
## SBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | ASBESTOS (%) | NON-ASBESTOS (%) | |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | | | ANALYZED BY |
| 110474 | E71203TA-33 | 12/03/97 | SHOP BLDG., RM. 173, SOFFIT | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110475 | E71203TA-34 | 12/03/97 | BLDG. AA 2384, B13-14, EXT. | BROWN, STUCCO/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110476 | E71203TA-35 | 12/03/97 | BLDG. AA 2384, B13-14, EXT. | BROWN, STUCCO/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110477 | E71203TA-36 | 12/03/97 | BLDG. AA 2384, B13-14, EXT. | BROWN, STUCCO/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110478 | E71203TA-37 | 12/03/97 | BLDG. B16-17, EXT. WALL | BROWN, STUCCO/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110479 | E71203TA-38 | 12/03/97 | BLDG. B16-17, EXT. WALL | BROWN, STUCCO/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110480 | E71203TA-39 | 12/03/97 | BLDG. B16-17, EXT. WALL | BROWN, STUCCO/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110481A | E71203TA-40 | 12/03/97 | HOME ECON. BLDG., 2ND FLOOR, FLOOR | BROWN, FLOOR TILE/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110481B | E71203TA-40 | 12/03/97 | HOME ECON. BLDG., 2ND FLOOR, FLOOR | BLACK, MASTIC/ (NF) | 5% CHRYSOTILE | 95% MATRIX (non-fibrous) | FM |

Karen Dufresne
Reviewed and Approved



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CLIENT: LOS ANGELES UNIFIED SCHOOL DISTRICT

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CLIENT PROJECT NUMBER: N/A

CLIENT PROJECT NAME: SAN PEDRO HIGH SCHOOL-TECHNOLOGY UPGRADE PROJECT/1001 WEST 15TH STREET SAN PEDRO, CA 90731

LABORATORY REFERENCE NUMBER: 026506/P70614.L26

DATE SAMPLE(S) RECEIVED: 12/09/97

DATE SAMPLE(S) ANALYZED: 12/16/97

REPORT DATE: 12/18/97

## LABORATORY TEST REPORT
## ASBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | ASBESTOS (%) | NON-ASBESTOS (%) | |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | | | ANALYZED BY |
| 110482A | E71204TA-41 | 12/04/97 | HOME ECON. BLDG., 2ND FLOOR, FLOOR | BROWN, FLOOR TILE/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110482B | E71204TA-41 | 12/04/97 | HOME ECON. BLDG., 2ND FLOOR, FLOOR | BLACK, MASTIC/ (NF) | 6% CHRYSOTILE | 94% MATRIX (non-fibrous) | FM |
| 110483A | E71204TA-42 | 12/04/97 | HOME ECON. BLDG., 2ND FLOOR, FLOOR | BROWN, FLOOR TILE/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110483B | E71204TA-42 | 12/04/97 | HOME ECON. BLDG., 2ND FLOOR, FLOOR | BLACK, MASTIC/ (NF) | 5% CHRYSOTILE | 95% MATRIX (non-fibrous) | FM |
| 110484 | E71204TA-43 | 12/04/97 | HOME ECON. BLDG., FIRST FLOOR, CEILINGS | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110485 | E71204TA-44 | 12/04/97 | HOME ECON. BLDG., FIRST FLOOR, CEILINGS | BROWN, HARD MASTIC/ (NF) CEILING TILE ADHESIVE | ND | 100% MATRIX (non-fibrous) | FM |
| 110486 | E71204TA-45 | 12/04/97 | HOME ECON. BLDG., FIRST FLOOR, CEILINGS | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110487 | E71204TA-46 | 12/04/97 | HOME ECON. BLDG., FIRST FLOOR, KITCHEN | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110488 | E71204TA-47 | 12/04/97 | HOME ECON. BLDG., FIRST FLOOR, KITCHEN | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |

Reviewed and Approved



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CLIENT: LOS ANGELES UNIFIED SCHOOL DISTRICT
CLIENT ADDRESS: 1240 SOUTH NAOMI AVENUE, LOS ANGELES, CALIFORNIA 90021
CLIENT PROJECT NUMBER: N/A
CLIENT PROJECT NAME: SAN PEDRO HIGH SCHOOL-TECHNOLOGY UPGRADE PROJECT/1001 WEST 15TH STREET SAN PEDRO, CA 90731

LABORATORY REFERENCE NUMBER: 026506/P70614.L26
DATE SAMPLE(S) RECEIVED: 12/09/97
DATE SAMPLE(S) ANALYZED: 12/16/97
REPORT DATE: 12/18/97

## LABORATORY TEST REPORT
## ASBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | ASBESTOS (%) | NON-ASBESTOS (%) | |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | | | ANALYZED BY |
| 110489 | E71204TA-48 | 12/04/97 | HOME ECON. BLDG., FIRST FLOOR, KITCHEN | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110490 | E71204TA-49 | 12/04/97 | HOME ECON. BLDG., EXT. WALL | BROWN, STUCCO/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110491 | E71204TA-50 | 12/04/97 | HOME ECON. BLDG., EXT. WALL | BROWN, STUCCO/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110492 | E71204TA-51 | 12/04/97 | HOME ECON. BLDG., EXT. WALL | BROWN, STUCCO/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110493 | E71204TA-52 | 12/04/97 | HOME ECON. BLDG., CAFETERIA | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110494 | E71204TA-53 | 12/04/97 | HOME ECON. BLDG., CAFETERIA | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110495 | E71204TA-54 | 12/04/97 | HOME ECON. BLDG., CAFETERIA | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110496 | E71204TA-55 | 12/04/97 | BLDG. A 922, B24, INT. WALL | BEIGE, DRYWALL/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110497 | E71204TA-56 | 12/04/97 | BLDG. A 922, B24, INT. WALL | BEIGE, DRYWALL/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |

Reviewed and Approved



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CLIENT PROJECT NAME: SAN PEDRO HIGH SCHOOL-TECHNOLOGY UPGRADE PROJECT/1001 WEST 15TH STREET SAN PEDRO, CA 90731

LABORATORY REFERENCE NUMBER: 026506/P70614.L26

DATE SAMPLE(S) RECEIVED: 12/09/97

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REPORT DATE: 12/18/97

## LABORATORY TEST REPORT

## SBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | ASBESTOS (%) | NON-ASBESTOS (%) | |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | | | ANALYZED BY |
| 110538 | E71204TA-97 | 12/04/97 | BLDG. J 164, B31, INT. WALL | BEIGE, JOINT COMPOUND/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110539 | E71204TA-98 | 12/04/97 | BLDG. J 164, B31, INT. WALL | BEIGE, JOINT COMPOUND/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110540 | E71204TA-99 | 12/04/97 | BLDG. J 164, B31, INT. WALL | BEIGE, JOINT COMPOUND/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110541 | E71204TA-100 | 12/04/97 | BLDG. AA 2286, B37-38, EXT. WALL | BROWN, STUCCO/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110542 | E71204TA-101 | 12/04/97 | BLDG. AA 2286, B37-38, EXT. WALL | BROWN, STUCCO/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110543 | E71204TA-102 | 12/04/97 | BLDG. AA 2286, B37-38, EXT. WALL | BROWN, STUCCO/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110544 | E71205TA-103 | 12/05/97 | CLASSROOM BLDG. #2, RM. 147 | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110545 | E71205TA-104 | 12/05/97 | CLASSROOM BLDG. #2, RM. 151 | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110546 | E71205TA-105 | 12/05/97 | CLASSROOM BLDG. #2, RM. 144 | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |

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LABORATORY REFERENCE NUMBER: 026506/P70614.L26

DATE SAMPLE(S) RECEIVED: 12/09/97

DATE SAMPLE(S) ANALYZED: 12/17/97

DATE: 12/18/97

Classroom 2

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## LABORATORY TEST REPORT

## ASBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA 1

BPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | | | |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | ASBESTOS (%) | NON-ASBESTOS (%) | ANALYZED BY |
| 110547 | E71205TA-106 | 12/05/97 | CLASSROOM BLDG. #2, GROUND LEVEL HALLWAY | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110548 | E71205TA-107 | 12/05/97 | CLASSROOM BLDG. #2, GROUND LEVEL HALLWAY | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110549 | E71205TA-108 | 12/05/97 | CLASSROOM BLDG. #2, GROUND LEVEL HALLWAY | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110550 | E71205TA-109 | 12/05/97 | CLASSROOM BLDG. #2, GROUND LEVEL HALLWAY | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110551 | E71205TA-110 | 12/05/97 | CLASSROOM BLDG. #2, GROUND LEVEL HALLWAY | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110552 | E71205TA-111 | 12/05/97 | CLASSROOM BLDG. #2, GROUND LEVEL HALLWAY | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |

Reviewed and Approved



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CLIENT PROJECT NAME: SAN PEDRO HIGH SCHOOL-TECHNOLOGY UPGRADE PROJECT/1001 WEST 15TH STREET SAN PEDRO, CA 90731

LABORATORY REFERENCE NUMBER: 026506/P70614.L26

DATE SAMPLE(S) RECEIVED: 12/09/97

DATE SAMPLE(S) ANALYZED: 12/17/97

REPORT DATE: 12/18/97

## LABORATORY TEST REPORT

## BESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | ASBESTOS (%) | NON-ASBESTOS (%) | |
|---|---|---|---|---|---|---|---|
| LAB MPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | | | ANALYZED BY |
| 10553 | E71205TA-112 | 12/05/97 | BLDG. #2, GROUND LEVEL HALLWAY | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 10554 | E71205TA-113 | 12/05/97 | BLDG. #2, GROUND LEVEL HALLWAY | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 10555 | E71205TA-114 | 12/05/97 | BLDG. #2, GROUND LEVEL HALLWAY | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 10556 | E71205TA-115 | 12/05/97 | CLASSROOM BLDG. #2, RM. 151 | BEIGE/TAN, CEILING TILE/ (FR) | ND | 20% CELLULOSE<br>80% MATRIX (non-fibrous) | FM |
| 10557 | E71205TA-116 | 12/05/97 | CLASSROOM BLDG. #2, ENTRY, RM. 153 | BEIGE/TAN, CEILING TILE/ (FR) | ND | 30% CELLULOSE<br>70% MATRIX (non-fibrous) | FM |
| 10558 | E71205TA-117 | 12/05/97 | CLASSROOM BLDG. #2, ENTRY, RM. 150 | BEIGE/TAN, CEILING TILE/ (FR) | ND | 25% CELLULOSE<br>75% MATRIX (non-fibrous) | FM |
| 10559 | E71205TA-118 | 12/05/97 | CLASSROOM BLDG. #2, ENTRY, RM. 151 | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |

Reviewed and Approved



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CLIENT PROJECT NUMBER: N/A
CLIENT PROJECT NAME: SAN PEDRO HIGH SCHOOL-TECHNOLOGY UPGRADE PROJECT/1001 WEST 15TH STREET SAN PEDRO, CA 90731

LABORATORY REFERENCE NUMBER: 026506/P70614.L26
DATE SAMPLE(S) RECEIVED: 12/09/97
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REPORT DATE: 12/18/97

## LABORATORY TEST REPORT
## ASBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | ASBESTOS (%) | NON-ASBESTOS (%) | |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | | | ANALYZED BY |
| 110560 | E71205TA-119 | 12/05/97 | CLASSROOM BLDG. #2, ENTRY, RM. 153 | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110561 | E71205TA-120 | 12/05/97 | CLASSROOM BLDG. #2, ENTRY, RM. 150 | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110562 | E71205TA-121 | 12/05/97 | CLASSROOM BLDG. #2, RM. 151 | BEIGE, DRYWALL/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110563 | E71205TA-122 | 12/05/97 | CLASSROOM BLDG. #2, ENTRY, RM. 153 | BEIGE, DRYWALL/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110564 | E71205TA-123 | 12/05/97 | CLASSROOM BLDG. #2, ENTRY, RM. 150 | BEIGE, DRYWALL/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110565A | E71205TA-124 | 12/05/97 | CLASSROOM BLDG. #2, RM. 244B | BROWN, FLOOR TILE/ (NF) | 3% CHRYSOTILE | 97% MATRIX (non-fibrous) | FM |
| 110565B | E71205TA-124 | 12/05/97 | CLASSROOM BLDG. #2, RM. 244B | BLACK, MASTIC/ (NF) | 7% CHRYSOTILE | 93% MATRIX (non-fibrous) | FM |
| 110566A | E71205TA-125 | 12/05/97 | CLASSROOM BLDG. #2, RM. 244B | BROWN, FLOOR TILE/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110566B | E71205TA-125 | 12/05/97 | CLASSROOM BLDG. #2, RM. 244B | BLACK, MASTIC/ (NF) | 5% CHRYSOTILE | 95% MATRIX (non-fibrous) | FM |

Reviewed and Approved



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LABORATORY REFERENCE NUMBER: 026506/P70614.L26
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## LABORATORY TEST REPORT
## ASBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | ASBESTOS (%) | NON-ASBESTOS (%) | |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | | | ANALYZED BY |
| 110567A | E71205TA-126 | 12/05/97 | CLASSROOM BLDG. #2, RM. 244B | BROWN, FLOOR TILE/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110567B | E71205TA-126 | 12/05/97 | CLASSROOM BLDG. #2, RM. 244B | BLACK, MASTIC/ (NF) | 5% CHRYSOTILE | 95% MATRIX (non-fibrous) | FM |
| 110568A | E71205TA-127 | 12/05/97 | CLASSROOM BLDG. #2, ST. LEVEL HALLWAY | YELLOW, FLOOR TILE/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110568B | E71205TA-127 | 12/05/97 | CLASSROOM BLDG. #2, ST. LEVEL HALLWAY | BLACK, MASTIC/ (NF) | 5% CHRYSOTILE | 95% MATRIX (non-fibrous) | FM |
| 110569A | E71205TA-128 | 12/05/97 | CLASSROOM BLDG. #2, ST. LEVEL HALLWAY | YELLOW, FLOOR TILE/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110569B | E71205TA-128 | 12/05/97 | CLASSROOM BLDG. #2, ST. LEVEL HALLWAY | BLACK, MASTIC/ (NF) | 3% CHRYSOTILE | 97% MATRIX (non-fibrous) | FM |
| 110570A | E71205TA-129 | 12/05/97 | CLASSROOM BLDG. #2, ST. LEVEL HALLWAY | YELLOW, FLOOR TILE/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110570B | E71205TA-129 | 12/05/97 | CLASSROOM BLDG. #2, ST. LEVEL HALLWAY | BLACK, MASTIC/ (NF) | 5% CHRYSOTILE | 95% MATRIX (non-fibrous) | FM |
| 110571 | E71205TA-130 | 12/05/97 | CLASSROOM BLDG. #2, ST. LEVEL, RM. 242 | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |

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CLIENT PROJECT NUMBER: N/A
CLIENT PROJECT NAME: SAN PEDRO HIGH SCHOOL-TECHNOLOGY UPGRADE PROJECT/1001 WEST 15TH STREET SAN PEDRO, CA 90731

LABORATORY REFERENCE NUMBER: 026506/P70614.L26
DATE SAMPLE(S) RECEIVED: 12/09/97
DATE SAMPLE(S) ANALYZED: 12/17/97
REPORT DATE: 12/18/97

## LABORATORY TEST REPORT
## ASBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | ASBESTOS (%) | NON-ASBESTOS (%) | |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | | | ANALYZED BY |
| 110572 | E71205TA-131 | 12/05/97 | CLASSROOM BLDG. #2, ST. LEVEL, RM. 243 | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110573 | E71205TA-132 | 12/05/97 | CLASSROOM BLDG. #2, ST. LEVEL, RM. 244 | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110574 | E71205TA-133 | 12/05/97 | CLASSROOM BLDG. #2, ST. LEVEL, HALLWAY | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110575 | E71205TA-134 | 12/05/97 | CLASSROOM BLDG. #2, ST. LEVEL HALLWAY | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110576 | E71205TA-135 | 12/05/97 | CLASSROOM BLDG. #2, ST. LEVEL HALLWAY | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110577 | E71205TA-136 | 12/05/97 | CLASSROOM BLDG. #2, ST. LEVEL HALLWAY | WHITE/TAN, CEILING TILE/ (FR) | ND | 30% CELLULOSE<br>70% MATRIX (non-fibrous) | FM |
| 110578 | E71205TA-137 | 12/05/97 | CLASSROOM BLDG. #2, ST. LEVEL HALLWAY | WHITE/TAN, CEILING TILE/ (FR) | ND | 20% CELLULOSE<br>80% MATRIX (non-fibrous) | FM |
| 110579 | E71205TA-138 | 12/05/97 | CLASSROOM BLDG. #2, ST. LEVEL HALLWAY | WHITE/TAN, CEILING TILE/ (FR) | ND | 25% CELLULOSE<br>75% MATRIX (non-fibrous) | FM |

Reviewed and Approved



NOTES: ND = Asbestos is not quantifiable below the method detection limit of one (1) percent: Amphibole asbestos includes amosite, crocidolite, anthophyllite, tremolite and actinolite. (FR) = Friable; (NF) = Non-Friable - Condition of sample as received by the laboratory: Our policy is to retain all samples for a period of three years. Accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under NVLAP Lab Code 200013-0. Results reported pertain to sample(s) as submitted and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purposes without prior written authorization is prohibited. In addition, this report is not to be used to claim product endorsement by NVLAP or any agency of the U. S. Government. Where applicable, layers or "sub - samples" are reported and the Total Asbestos % represents the composite percentage of all sample layers.

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CLIENT ADDRESS: 1240 SOUTH NAOMI AVENUE, LOS ANGELES, CALIFORNIA 90021
CLIENT PROJECT NUMBER: N/A
CLIENT PROJECT NAME: SAN PEDRO HIGH SCHOOL-TECHNOLOGY UPGRADE PROJECT/1001 WEST 15TH STREET SAN PEDRO, CA 90731

LABORATORY REFERENCE NUMBER: 026506/P70614.1.26
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## LABORATORY TEST REPORT

## ASBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | | | |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | ASBESTOS (%) | NON-ASBESTOS (%) | ANALYZED BY |
| 110580 | E71205TA-139 | 12/05/97 | CLASSROOM BLDG. #2, HALLWAY | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110581 | E71205TA-140 | 12/05/97 | CLASSROOM BLDG. #2, HALLWAY | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110582 | E71205TA-141 | 12/05/97 | CLASSROOM BLDG. #2, HALLWAY | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110583 | E71205TA-142 | 12/05/97 | CLASSROOM BLDG. #2, HALLWAY | BEIGE, DRYWALL/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110584 | E71205TA-143 | 12/05/97 | CLASSROOM BLDG. #2, HALLWAY | BEIGE, DRYWALL (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110585 | E71205TA-144 | 12/05/97 | CLASSROOM BLDG. #2, HALLWAY | BEIGE, DRYWALL (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110586 | E71205TA-145 | 12/05/97 | BLDG. B3-B6, 1ST FLOOR | BEIGE, CEILING TILE/ (FR) | ND | 30% MINERAL WOOL<br>10% CELLULOSE<br>60% MATRIX (non-fibrous) | FM |

Reviewed and Approved



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CLIENT: LOS ANGELES UNIFIED SCHOOL DISTRICT

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CLIENT PROJECT NUMBER: N/A

CLIENT PROJECT NAME: SAN PEDRO HIGH SCHOOL-TECHNOLOGY UPGRADE PROJECT/1001 WEST 15TH STREET SAN PEDRO, CA 90731

LABORATORY REFERENCE NUMBER: 026506/P70614.L26

DATE SAMPLE(S) RECEIVED: 12/09/97

DATE SAMPLE(S) ANALYZED: 12/17/97

REPORT DATE: 12/18/97

## LABORATORY TEST REPORT

## ASBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | ASBESTOS (%) | NON-ASBESTOS (%) | |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | | | ANALYZED BY |
| 110628 | E71208TA-187 | 12/08/97 | CLASSROOM #1, GROUND LEVEL, RM. 126 | BEIGE, CEILING TILE/ (FR) | ND | 20% CELLULOSE<br>80% MATRIX (non-fibrous) | FM |
| 110629 | E71208TA-188 | 12/08/97 | CLASSROOM #1, GROUND LEVEL, RM. 126 | BEIGE, CEILING TILE/ (FR) | ND | 30% CELLULOSE<br>70% MATRIX (non-fibrous) | FM |
| 110630 | E71208TA-189 | 12/08/97 | CLASSROOM #1, GROUND LEVEL, RM. 126 | BEIGE, CEILING TILE/ (FR) | ND | 15% CELLULOSE<br>85% MATRIX (non-fibrous) | FM |
| 110631 | E71208TA-190 | 12/08/97 | CLASSROOM #1, GROUND LEVEL, RM. 126 | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110632 | E71208TA-191 | 12/08/97 | CLASSROOM #1, GROUND LEVEL, RM. 126 | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110633 | E71208TA-192 | 12/08/97 | CLASSROOM #1, GROUND LEVEL, RM. 126 | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110634 | E71208TA-193 | 12/08/97 | ADMIN. BLDG., 1ST FLOOR, WAITING RM. | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110635 | E71208TA-194 | 12/08/97 | ADMIN. BLDG., 1ST FLOOR, WAITING RM. | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |

Helen DeVeaux

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CLIENT: LOS ANGELES UNIFIED SCHOOL DIS[illegible]RICT
CLIENT ADDRESS: 1240 SOUTH NAOMI AVENUE, LOS A[illegible]ELES, CALIFORNIA 90021
CLIENT PROJECT NUMBER: N/A
CLIENT PROJECT NAME: SAN PEDRO HIGH SCHOOL-TECHNO[illegible]GY UPGRADE PROJECT/1001 WEST 15TH STREET SAN PEDRO, CA 90731

LABORATORY REFERENCE NUMBER: 026506/P70614.L26
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## LABORATORY TEST REPORT

## ASBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT [illegible]ICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | ASBESTOS (%) | NON-ASBESTOS (%) | |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | | | ANALYZED BY |
| 110636 | E71208TA-195 | 12/08/97 | ADMIN. BLDG., 1ST FLOOR, HALLWAY | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110637 | E71208TA-196 | 12/08/97 | ADMIN. BLDG. (PUBLIC) RM. 111 | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110638 | E71208TA-197 | 12/08/97 | ADMIN. BLDG. (PUBLIC) RM. 111 | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110639 | E71208TA-198 | 12/08/97 | ADMIN. BLDG. (PUBLIC) RM. 111 | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110640 | E71208TA-199 | 12/08/97 | ADMIN. BASEMENT, CRAFTS | BROWN, HARD MASTIC/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110641 | E71208TA-200 | 12/08/97 | ADMIN. BASEMENT PRINT SHOP | BROWN, HARD MASTIC/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110642 | E71208TA-201 | 12/08/97 | ADMIN. BASEMENT PRINT SHOP | BROWN, HARD MASTIC/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110643 | E71208TA-202 | 12/08/97 | ADMIN. BLDG., 2ND FLOOR | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110644 | E71208TA-203 | 12/08/97 | ADMIN. BLDG., 2ND FLOOR | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |

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Reviewed and Approved

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CLIENT: LOS ANGELES UNIFIED SCHOOL DISTRICT
CLIENT ADDRESS: 1240 SOUTH NAOMI AVENUE, LOS ANGELES, CALIFORNIA 90021
CLIENT PROJECT NUMBER: N/A
CLIENT PROJECT NAME: SAN PEDRO HIGH SCHOOL-TECHNOLOGY UPGRADE PROJECT/1001 WEST 15TH STREET SAN PEDRO, CA 90731

LABORATORY REFERENCE NUMBER: 026506/P70614.L26
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## LABORATORY TEST REPORT

## ASBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | ASBESTOS (%) | NON-ASBESTOS (%) | |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | | | ANALYZED BY |
| 110645 | E71208TA-204 | 12/08/97 | ADMIN. BLDG., 2ND FLOOR | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110646 | E71208TA-205 | 12/08/97 | ADMIN. BLDG., LIBRARY | BROWN, GLUE/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110647 | E71208TA-206 | 12/08/97 | ADMIN. BLDG., LIBRARY | BROWN, GLUE (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110648 | E71208TA-207 | 12/08/97 | ADMIN. BLDG., LIBRARY | BROWN, GLUE/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110649 | E71208TA-208 | 12/08/97 | GIRLS' GYM | BROWN, STUCCO/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110650 | E71208TA-209 | 12/08/97 | GIRLS' GYM | BROWN, STUCCO/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110651 | E71208TA-210 | 12/08/97 | GIRLS' GYM | BROWN, STUCCO/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110652 | E71208TA-211 | 12/08/97 | GIRLS' GYM | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110653 | E71208TA-212 | 12/08/97 | GIRLS' GYM | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |

Reviewed and Approved



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CLIENT PROJECT NUMBER: N/A
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## ASBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | ASBESTOS (%) | NON-ASBESTOS (%) | |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | | | ANALYZED BY |
| 110603 | E71208TA-162 | 12/08/97 | BLDG. B3-B6, 2ND FLOOR, RM. B6 | BEIGE, JOINT COMPOUND/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110604 | E71208TA-163 | 12/08/97 | BLDG. AA 1007, RM. B1 | BEIGE, DRYWALL/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110605 | E71208TA-164 | 12/08/97 | BLDG. AA 1007, RM. B1 | BEIGE, DRYWALL/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110606 | E71208TA-165 | 12/08/97 | BLDG. AA 1007, RM. B1 | BEIGE, DRYWALL/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110607A | E71208TA-166 | 12/08/97 | CLASSROOM #1, ST. LEVEL, RM. 228 | BROWN, FLOOR TILE/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110607B | E71208TA-166 | 12/08/97 | CLASSROOM #1, ST. LEVEL, RM. 228 | BLACK, MASTIC/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110608A | E71208TA-167 | 12/08/97 | CLASSROOM #1, ST. LEVEL, RM. 228 | BROWN, FLOOR TILE/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110608B | E71208TA-167 | 12/08/97 | CLASSROOM #1, ST. LEVEL, RM. 228 | BLACK, MASTIC/ (NF) | 5% CHRYSOTILE | 95% MATRIX (non-fibrous) | FM |

Reviewed and Approved



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## ASBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | ASBESTOS (%) | NON-ASBESTOS (%) | ANALYZED BY |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | | | |
| 110654 | E71208TA-213 | 12/08/97 | GIRLS' GYM | BEIGE, PLASTER/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110655 | E71208TA-214 | 12/08/97 | GIRLS' GYM | BEIGE, CEILING TILE/ (FR) | ND | 30% CELLULOSE<br>70% MATRIX (non-fibrous) | FM |
| 110656 | E71208TA-215 | 12/08/97 | GIRLS' GYM | BEIGE, CEILING TILE/ (FR) | ND | 20% CELLULOSE<br>80% MATRIX (non-fibrous) | FM |
| 110657 | E71208TA-216 | 12/08/97 | GIRLS' GYM | BEIGE, CEILING TILE/ (FR) | ND | 35% CELLULOSE<br>65% MATRIX (non-fibrous) | FM |
| 110658 | E71208TA-217 | 12/08/97 | GIRLS' GYM | BROWN, HARD MASTIC/ (NF) | 2% ANTHOPHYLLITE | 98% MATRIX (non-fibrous) | FM |
| 110659 | E71208TA-218 | 12/08/97 | GIRLS' GYM | BROWN, HARD MASTIC/ (NF) | 2% ANTHOPHYLLITE | 98% MATRIX (non-fibrous) | FM |
| 110660 | E71208TA-219 | 12/08/97 | GIRLS' GYM | BROWN, HARD MASTIC/ (NF) | 2% ANTHOPHYLLITE | 98% MATRIX (non-fibrous) | FM |

Reviewed and Approved



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5 NASH STREET, SUITE 203, EL SEGUNDO, CALIFORNIA 90245 • (310) 640-9811 • FAX (310) 640-9804

CLIENT: LOS ANGELES UNIFIED SCHOOL DISTRICT

CLIENT ADDRESS: 1240 SOUTH NAOMI AVENUE, LOS ANGELES, CALIFORNIA 90021

CLIENT PROJECT NUMBER: N/A

CLIENT PROJECT NAME: SAN PEDRO HIGH SCHOOL-TECHNOLOGY UPGRADE PROJECT/1001 WEST 15TH STREET SAN PEDRO, CA 90731

LABORATORY REFERENCE NUMBER: 026506/P70614.L26

DATE SAMPLE(S) RECEIVED: 12/09/97

DATE SAMPLE(S) ANALYZED: 12/17/97

REPORT DATE: 12/18/97

## LABORATORY TEST REPORT

## ASBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | ASBESTOS (%) | NON-ASBESTOS (%) | |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | | | ANALYZED BY |
| 10609A | E71208TA-168 | 12/08/97 | CLASSROOM #1, ST. LEVEL, RM. 228 | BROWN, FLOOR TILE/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 10609B | E71208TA-168 | 12/08/97 | CLASSROOM #1, ST. LEVEL, RM. 228 | BLACK, MASTIC/ (NF) | 4% CHRYSOTILE | 96% MATRIX (non-fibrous) | FM |
| 110610 | E71208TA-169 | 12/08/97 | CLASSROOM #1, ST. LEVEL, RM. 230 HALLWAY | BEIGE, CEILING TILE/ (FR) | ND | 30% CELLULOSE<br>70% MATRIX (non-fibrous) | FM |
| 110611 | E71208TA-170 | 12/08/97 | CLASSROOM #1, ST. LEVEL, RM. 230 HALLWAY | BEIGE, CEILING TILE/ (FR) | ND | 20% CELLULOSE<br>80% MATRIX (non-fibrous) | FM |
| 110612 | E71208TA-171 | 12/08/97 | CLASSROOM #1, ST. LEVEL, RM. 230 HALLWAY | BEIGE, CEILING TILE/ (FR) | ND | 30% CELLULOSE<br>70% MATRIX (non-fibrous) | FM |
| 110613 | E71208TA-172 | 12/08/97 | CLASSROOM #1, ST. LEVEL, RM. 230 HALLWAY | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110614 | E71208TA-173 | 12/08/97 | CLASSROOM #1, ST. LEVEL, RM. 230 HALLWAY | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |

Reviewed and Approved



NOTES: ND = Asbestos is not quantifiable below the method detection limit of one (1) percent: Amphibole asbestos includes amosite, crocidolite, anthophyllite, tremolite and actinolite. (FR) = Friable; (NF) = Non-Friable - Condition of sample as received by the laboratory: Our policy is to retain all samples for a period of three years. Accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under NVLAP Lab Code 200013-0. Results reported pertain to sample(s) as submitted and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purposes without prior written authorization is prohibited. In addition, this report is not to be used to claim product endorsement by NVLAP or any agency of the U. S. Government. Where applicable, layers or "sub - samples" are reported and the Total Asbestos % represents the composite percentage of all sample layers.

ENCORP ENVIRONMENTAL MANAGEMENT & SERVICES
15 NASH STREET, SUITE 203, EL SEGUNDO, CALIFORNIA 90245 • (310) 640-9811 • FAX (310) 640-9804

CLIENT: LOS ANGELES UNIFIED SCHOOL DISTRICT
CLIENT ADDRESS: 1240 SOUTH NAOMI AVENUE, LOS ANGELES, CALIFORNIA 90021
CLIENT PROJECT NUMBER: N/A
CLIENT PROJECT NAME: SAN PEDRO HIGH SCHOOL-TECHNOLOGY UPGRADE PROJECT/1001 WEST 15TH STREET SAN PEDRO, CA 90731

LABORATORY REFERENCE NUMBER: 026506/P70614.L26
DATE SAMPLE(S) RECEIVED: 12/09/97
DATE SAMPLE(S) ANALYZED: 12/17/97
REPORT DATE: 12/18/97

## LABORATORY TEST REPORT

## ASBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | ASBESTOS (%) | NON-ASBESTOS (%) | |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | | | ANALYZED BY |
| 110615 | E71208TA-174 | 12/08/97 | CLASSROOM #1, ST. LEVEL, RM. 230 HALLWAY | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110616A | E71208TA-175 | 12/08/97 | CLASSROOM #1, ST. LEVEL, RM. 226 | BROWN, FLOOR TILE/ (FR) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110616B | E71208TA-175 | 12/08/97 | CLASSROOM #1, ST. LEVEL, RM. 226 | BLACK, MASTIC/ (NF) | 5% CHRYSOTILE | 95% MATRIX (non-fibrous) | FM |
| 110617A | E71208TA-176 | 12/08/97 | CLASSROOM #1, ST. LEVEL, RM. 226 | BROWN, FLOOR TILE/ (FR) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110617B | E71208TA-176 | 12/08/97 | CLASSROOM #1, ST. LEVEL, RM. 226 | BLACK, MASTIC/ (NF) | 4% CHRYSOTILE | 96% MATRIX (non-fibrous) | FM |
| 110618A | E71208TA-177 | 12/08/97 | CLASSROOM #1, ST. LEVEL, RM. 226 | BROWN, FLOOR TILE/ (FR) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110618B | E71208TA-177 | 12/08/97 | CLASSROOM #1, ST. LEVEL, RM. 226 | BLACK, MASTIC/ (NF) | 5% CHRYSOTILE | 95% MATRIX (non-fibrous) | FM |
| 110619 | E71208TA-178 | 12/08/97 | CLASSROOM #1, ST. LEVEL, RM. 226 | BROWN, FLOORING/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 110620 | E71208TA-179 | 12/08/97 | CLASSROOM #1, ST. LEVEL, RM. 226 | BROWN, FLOORING/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |

Reviewed and Approved



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615 NASH STREET, SUITE 203, EL SEGUNDO, CALIFORNIA 90245 • (310) 640-9811 • FAX (310) 640-9804

CLIENT: LOS ANGELES UNIFIED SCHOOL DISTRICT

CLIENT ADDRESS: 1240 SOUTH NAOMI AVENUE, LOS ANGELES, CALIFORNIA 90021

CLIENT PROJECT NUMBER: N/A

CLIENT PROJECT NAME: SAN PEDRO HIGH SCHOOL -TECHNOLOGY UPGRADE PROJECT/1001 WEST 15TH STREET SAN PEDRO, CA 90731

LABORATORY REFERENCE NUMBER: 026506/P70614.L26

DATE SAMPLE(S) RECEIVED: 12/09/97

DATE SAMPLE(S) ANALYZED: 12/17/97

REPORT DATE: 12/18/97

## LABORATORY TEST REPORT

## ASBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | SAMPLE DESCRIPTION | | | | |
|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | ASBESTOS (%) | NON-ASBESTOS (%) | ANALYZED BY |
| 10621 | E71208TA-180 | 12/08/97 | CLASSROOM #1, ST. LEVEL, RM. 226 | BROWN, FLOORING/ (NF) | 2% CHRYSOTILE | 98% MATRIX (non-fibrous) | FM |
| 10622 | E71208TA-181 | 12/08/97 | CLASSROOM #1, GROUND LEVEL, HALLWAY | BEIGE, CEILING TILE/ (FR) | ND | 30% CELLULOSE<br>70% MATRIX (non-fibrous) | FM |
| 10623 | E71208TA-182 | 12/08/97 | CLASSROOM #1, GROUND LEVEL, HALLWAY | BEIGE, CEILING TILE/ (FR) | ND | 40% CELLULOSE<br>60% MATRIX (non-fibrous) | FM |
| 10624 | E71208TA-183 | 12/08/97 | CLASSROOM #1, GROUND LEVEL, HALLWAY | BEIGE, CEILING TILE/ (FR) | ND | 35% CELLULOSE<br>65% MATRIX (non-fibrous) | FM |
| 10625 | E71208TA-184 | 12/08/97 | CLASSROOM #1, GROUND LEVEL, HALLWAY | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 10626 | E71208TA-185 | 12/08/97 | CLASSROOM #1, GROUND LEVEL, HALLWAY | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 10627 | E71208TA-186 | 12/08/97 | CLASSROOM #1, GROUND LEVEL, HALLWAY | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |

Reviewed and Approved



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ENVIRONMENTAL MANAGEMENT & SERVICES
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CLIENT PROJECT NUMBER: N/A
CLIENT PROJECT NAME: SAN PEDRO HIGH SCHOOL-TECHNOLOGY UPGRADE PROJECT/1001 WEST 15TH STREET SAN PEDRO, CA 90731

LABORATORY REFERENCE NUMBER: 026506/P70614.L26
DATE SAMPLE(S) RECEIVED: 12/09/97
DATE SAMPLE(S) ANALYZED: 12/17/97
REPORT DATE: 12/18/97

## LABORATORY TEST REPORT
## ASBESTOS IN BULK SAMPLE(S) BY POLARIZED LIGHT MICROSCOPY (PLM)/DISPERSION STAINING EPA METHOD 40 CFR, PART 763, SUBPART F, APPX. A

| SAMPLE IDENTIFICATION | | | SAMPLE DESCRIPTION | | ASBESTOS (%) | NON-ASBESTOS (%) | |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE # | CLIENT ID | SAMPLED DATE | SAMPLE LOCATION | BRIEF PHYSICAL DESCRIPTION (FR/NF) | | | ANALYZED BY |
| 110628 | E71208TA-187 | 12/08/97 | CLASSROOM #1, GROUND LEVEL, RM. 126 | BEIGE, CEILING TILE/ (FR) | ND | 20% CELLULOSE<br>80% MATRIX (non-fibrous) | FM |
| 110629 | E71208TA-188 | 12/08/97 | CLASSROOM #1, GROUND LEVEL, RM. 126 | BEIGE, CEILING TILE/ (FR) | ND | 30% CELLULOSE<br>70% MATRIX (non-fibrous) | FM |
| 110630 | E71208TA-189 | 12/08/97 | CLASSROOM #1, GROUND LEVEL, RM. 126 | BEIGE, CEILING TILE/ (FR) | ND | 15% CELLULOSE<br>85% MATRIX (non-fibrous) | FM |
| 110631 | E71208TA-190 | 12/08/97 | CLASSROOM #1, GROUND LEVEL, RM. 126 | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110632 | E71208TA-191 | 12/08/97 | CLASSROOM #1, GROUND LEVEL, RM. 126 | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110633 | E71208TA-192 | 12/08/97 | CLASSROOM #1, GROUND LEVEL, RM. 126 | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110634 | E71208TA-193 | 12/08/97 | ADMIN. BLDG., 1ST FLOOR, WAITING RM. | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |
| 110635 | E71208TA-194 | 12/08/97 | ADMIN. BLDG., 1ST FLOOR, WAITING RM. | BROWN, HARD MASTIC/ (NF) | ND | 100% MATRIX (non-fibrous) | FM |

Reviewed and Approved



NOTES: ND = Asbestos is not quantifiable below the method detection limit of one (1) percent: Amphibole asbestos includes amosite, crocidolite, anthophyllite, tremolite and actinolite. (FR) = Friable; (NF) = Non-Friable - Condition of sample as received by the laboratory: Our policy is to retain all samples for a period of three years. Accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under NVLAP Lab Code 200013-0. Results reported pertain to sample(s) as submitted and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purposes without prior written authorization is prohibited. In addition, this report is not to be used to claim product endorsement by NVLAP or any agency of the U. S. Government. Where applicable, layers or "sub - samples" are reported and the Total Asbestos % represents the composite percentage of all sample layers.

# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: SAN PEDRO H. S. CODE: 8850 PROJECT: FLOOR REPAIR

SAMPLED BY: KEVIN AUMAN DEPT.: 15 TEL. NO.: 310 515-3155 DATE SAMPLED: 7-24-97

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. DO NOT USE PENCIL (Rev. 7/95)

Original to EHSB lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | JOB NUMBER | DSR NUMBER | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|---|---|
| 9707-1192 | 01 | 004BDG | ADMINISTRATION BLDG | | | RM 112 | NORTHEAST CORNER | BROWN BATTERSHIP [illegible] | YES (NO) |
| 9707-1193 | 02 | 〃 | 〃 | | | 〃 | SOUTHEAST CORNER | 〃 | YES (NO) |
| 9707-1194 | 03 | 〃 | 〃 | | | 〃 | CENTER OF WEST WALL | 〃 | YES (NO) |
| | | | | | | | | | YES NO |
| | | | | | | | | | YES NO |
| | | | | | | | | | YES NO |
| | | | | | | | | | YES NO |
| | | | | | | | | | YES NO |
| | | | | | | | | | YES NO |
| | | | | | | | | | YES NO |
| | | | | | | | | | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT AND SIGN | DEPARTMENT/AREA | NO. OF SAMPLES: |
|---|---|---|---|---|
| 7-24-97 | 3:30 PM | KEVIN AUMAN [signature] | 15/M307 | (3) THREE |
| 7-29-97 | 11:30 a.m | DRU ROSS [signature] | EHSB | (3) |
| | | | | |
| | | | | |
| | | | | |

Los Angeles Unified School District
Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 7/24/97


| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 9707-1192A | RPC | 7/29/97 | 004BDJ, ADMIN, ROOM #112 / NORTH/EAST CORNER | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, BATTLESHIP, FLAT SOLID | 0 | 0 | 0 | 0 | 3% CELLULOSE, QUARTZ, BINDER |
| 9707-1192B | RPC | 7/29/97 | 004BDJ, ADMIN, ROOM #112 / NORTH/EAST CORNER | NON-HOMOGENEOUS, NON-FRIABLE, BLACK/BROWN, BATTLESHIP, TARLIKE WITH GRAVEL | 0 | 0 | 0 | 0 | 60% CELLULOSE, BINDER |
| 9707-1193A | RPC | 7/29/97 | 004BDJ, ADMIN, ROOM #112 / SOUTH/EAST CORNER | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, BATTLESHIP, FLAT SOLID | 0 | 0 | 0 | 0 | 3% CELLULOSE, BINDER, QUARTZ |
| 9707-1193B | RPC | 7/29/97 | 004BDJ, ADMIN, ROOM #112 / SOUTH/EAST CORNER | NON-HOMOGENEOUS, NON-FRIABLE, BROWN/BLACK, BATTLESHIP, TARLIKE WITH GRAVEL | 0 | 0 | 0 | 0 | 30% CELLULOSE, BINDER |
| 9707-1194 | RPC | 7/29/97 | 004BDJ, ADMIN, ROOM #112 / CENTER/WEST WALL | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, BATTLESHIP, FLAT SOLID | 0 | 0 | 0 | 0 | 3% CELLULOSE, BINDER, QUARTZ |

Signature of Lab Supervisor: _____ Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
This report relates to only the material tested.
This report is not used by the LAUSD/EHSB to claim product endorsement by NVLAP or any agency of the U.S. government.

# ASBESTOS BULK SAMPLE SUBMITTAL

71089 98 0594

SITE NAME: SAN PEDRO SH  CODE: 8850  PROJECT: REPAIR GYM FLOOR

SAMPLED BY: ANDY M. GUEVARRA  DEPT.: CARP  TEL. NO.: BIO/ 515-3155  DATE SAMPLED: 7/15/98

Fill in all information Legibly and Precisely.  Sampler should make a copy before submitting to the lab.  DO NOT USE PENCIL  (Rev. 4/95)

Original to EHSB lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 9807-0925 | 8850-01 | 006 CBJ | PHY. EDUC. | MAIN GYM FLOOR | N/WEST CORNER | BLACK FELT/ ~~GUM~~ ADHESIVE FLOOR | YES (NO) |
| | | | | | | | YES NO |
| | | NOTE: | AREA TO BE REPAIRED IS | LESS THAN ONE | (1) SQ. FT. | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT & SIGN: | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 7/16/98 | 8:00 | A.M. GUEVARRA | CARP / MO-7 | ONE (1) |
| 7/16/98 | 12:47 PM | William Houston-Tyllian Houston | M/O 107 | ONE (1) |
| 7/16/98 | 145P | C Harrison | | 1 |
| 7.20.98 | 1640 | Terri Twadell | Hygeia Labs | |

NIST / NVLAP Lab Code No. 102116-0
California ELAP Certificate No. 1269
New York ELAP Certificate No. 11017

Hygeia Laboratories Inc.

82 W. Sierra Madre Blvd
Sierra Madre, California
91024-2434

626-355-4711
FAX: 626-355-4497

# Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

*July 29, 1998*

*Ms. Deeanne Bryant*
*Los Angeles Unified School District*
*PO Box 2298*
*Los Angeles, CA 90051*

Hygeia Ref. No.: *71089980599*
Date Collected: *July 15, 1998*
Date Received: *July 20, 1998*
Date Analyzed: *July 26, 1998*
No. Samples Submitted: *1*
No. Samples Analyzed: *1*

Microscopist: *Quynh Trieu*
Client Project: *980700925 LAUSD, San Pedro SH*

| Client ID No. / Hygeia ID No. | Sample Description / Color | Asbestos Detected | Analytical Results | Q.C. |
|---|---|---|---|---|
| *98070925* / *485173* | *Black felt adhesive/floor* / black & black | *Yes* | 2% Chrysotile<br>35% Cellulose<br>30% Mineral Fillers<br>33% Organic Binders | |

Microscopist: _____ Laboratory Supervisor: _____

The limit of detection for this analytical method is less than one percent asbestos (visual area estimates).

# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: SAN PEDRO SENIOR HIGH  CODE: 8850  PROJECT: MAINTENANCE (ELECTRICAL)

SAMPLED BY: R. PARACUELLES  DEPT.: ATU/19  TEL. NO.: (213) 763-1450  DATE SAMPLED: 12-21-98

Fill in all information Legibly and Precisely.  Sampler should make a copy before submitting to the lab.  DO NOT USE PENCIL  (Rev. 4/95)

Original to EHSB lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 9812-0383 | 01 | 003 BCJ | HOME ECONOMICS | KITCHEN SERVING | S/WEST | CEILING PLASTER, SMOOTH FINISH | YES (NO) |
| 9812-0384 | 02 | ↓ | ↓ | KITCHEN STORAGE | CENTER | ↓ | YES (NO) |
| 9812-0385 | 03 | | | KITCHEN OFFICE TOILET | N/WEST | | YES (NO) |
| 9812-0386 | 04 | | | FACULTY DINING | S/EAST | CEILING TILE ADHESIVE | YES (NO) |
| 9812-0387 | 05 | | | CAFETERIA | N/WEST | ↓ | YES (NO) |
| 9812-0388 | 06 | ↓ | ↓ | DISHWASHING | S/WEST | ↓ | YES (NO) |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT & SIGN: | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 12-22-98 | 9:14 | RICARDO PARACUELLES | ATU/19 | 6 |
| 12-22-98 | 9:15 | Pauline N. Farrow / Pauline N. Farrow | EHSB | 6 |
| | | | | |
| | | | | |
| | | | | |

Los Angeles Unified School District
Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 743-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 12/22/98


| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 9812-0383A | RPC | 12/29/98 | 003BCJ, HOME EC, KTCN SRV / SOUTH/WEST | NON-HOMOGENEOUS, NON-FRIABLE, WHITE, PLASTER CEILING, CEMENTITIOUS | 0 | 0 | 0 | 0 | 1% CELLULOSE, GYPSUM, QUARTZ |
| 9812-0383B | RPC | 12/29/98 | 003BCJ, HOME EC, KTCN SRV / SOUTH/WEST | NON-HOMOGENEOUS, NON-FRIABLE, GREY, PLASTER CEILING, CEMENTITIOUS | 0 | 0 | 0 | 0 | 1% CELLULOSE, QUARTZ |
| 9812-0384A | RPC | 12/29/98 | 003BCJ, HOME EC, KTCN STR / CENTER | NON-HOMOGENEOUS, NON-FRIABLE, WHITE, PLASTER CEILING, CEMENTITIOUS | 0 | 0 | 0 | 0 | 1% CELLULOSE, QUARTZ, GYPSUM |
| 9812-0384B | RPC | 12/29/98 | 003BCJ, HOME EC, KTCN STR / CENTER | NON-HOMOGENEOUS, NON-FRIABLE, GREY, PLASTER CEILING, CEMENTITIOUS | 0 | 0 | 0 | 0 | 1% CELLULOSE, QUARTZ |
| 9812-0385A | RPC | 12/29/98 | 003BCJ, HOME EC, KTN TOLT / NORTH/WEST | NON-HOMOGENEOUS, NON-FRIABLE, GREY, PLASTER CEILING, CEMENTITIOUS | 0 | 0 | 0 | 0 | 1% CELLULOSE, QUARTZ |
| 9812-0385B | RPC | 12/29/98 | 003BCJ, HOME EC, KTN TOLT / NORTH/WEST | NON-HOMOGENEOUS, NON-FRIABLE, WHITE, PLASTER CEILING, CEMENTITIOUS | 0 | 0 | 0 | 0 | 1% CELLULOSE, QUARTZ, GYPSUM |
| 9812-0386 | RPC | 12/29/98 | 003BCJ, HOME EC, FAC. DNG / SOUTH/EAST | NON-HOMOGENEOUS, NON-FRIABLE, DARK BROWN, CEILING TILE ADHESIVE, FLAT SOLID | 0 | 0 | 0 | 0 | 5% CELLULOSE, BINDER |
| 9812-0387 | RPC | 12/29/98 | 003BCJ, HOME EC, CAFE / NORTH/WEST | NON-HOMOGENEOUS, NON-FRIABLE, DARK BROWN, CEILING TILE ADHESIVE, FLAT SOLID | 0 | 0 | 0 | 0 | 1% CELLULOSE, BINDER |
| 9812-0388 | RPC | 12/29/98 | 003BCJ, HOME EC, DSHWSHG / SOUTH/WEST | NON-HOMOGENEOUS, NON-FRIABLE, DARK BROWN, CEILING TILE ADHESIVE, FLAT SOLID | 0 | 0 | 0 | 0 | 5% CELLULOSE, BINDER |

Signature of Lab Supervisor: _____ Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
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This report may not be reproduced except in its entirety.

# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: SAN PEDRO HIGH SCHOOL  CODE: 8850  PROJECT: MAINTENANCE (ELECTRICAL)

SAMPLED BY: RICARDO PARACUELLES  DEPT.: ATU/19  TEL. NO.: 763-1450  DATE SAMPLED: 12-28-98

Fill in all information Legibly and Precisely.  Sampler should make a copy before submitting to the lab.  DO NOT USE PENCIL  (Rev. 4/95)

Original to EHSB lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 9812-0448 | 07 | 014 DAP | FOOD SERVICE | STORAGE ROOM | S/WEST | WALL PLASTER, SAND FINISH | YES (NO) |
| 9812-0449 | 08 | ↓ | ↓ | MAIN AREA | N/WEST | ↓ | YES (NO) |
| 9812-0450 | 09 | ↓ | ↓ | ↓ | N/CENTER | ↓ | YES (NO) |
| 9812-0451 | 10 | ↓ | ↓ | ↓ | N/CENTER | CEILING TILE, 12"X12" RANDOM HOLE | (YES) NO |
| 9812-0452 | 11 | ↓ | ↓ | ↓ | S/EAST | ↓ | (YES) NO |
| 9812-0453 | 12 | ↓ | ↓ | ↓ | W/CENTER | ↓ | (YES) NO |
| 9812-0454 | 13 | ↓ | ↓ | ↓ | N/CENTER | CEILING TILE ADHESIVE | YES (NO) |
| 9812-0455 | 14 | ↓ | ↓ | ↓ | S/EAST | ↓ | YES (NO) |
| 9812-0456 | 15 | ↓ | ↓ | ↓ | W/CENTER | ↓ | YES (NO) |
| 9812-0457 | 16 | ↓ | ↓ | ↓ | N/CENTER | DRYWALL CEILING | YES (NO) |
| 9812-0458 | 17 | ↓ | ↓ | ↓ | S/EAST | ↓ | YES (NO) |

TODY:

| DATE: | TIME: | NAME: PRINT & SIGN: | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 12-29-98 | 1:02 | RICARDO PARACUELLES | ATU/19 | 11 |
| 12-29-98 | 1:45 | C Harris / C Harris | EHSB | 11 |
| | | | | |
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| | | | | |

Los Angeles Unified School District
Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 743-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 12/29/98


| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 9812-0448A | MZ | 1/7/99 | 014DAP, FOOD SRVC, STORAG / SOUTH/WEST | NON-HOMOGENEOUS, NON-FRIABLE, BEIGE/WHITE, PLASTER WALL, COATED MATERIAL | 0 | 0 | 0 | 0 | 1% CELLULOSE, PAINT, QUARTZ, GYPSUM, HORNBLENDE |
| 9812-0448B | MZ | 1/7/99 | 014DAP, FOOD SRVC, STORAG / SOUTH/WEST | HOMOGENEOUS, NON-FRIABLE, BEIGE, PLASTER WALL, CEMENTITIOUS | 0 | 0 | 0 | 0 | <1% CELLULOSE, MICA, QUARTZ, GYPSUM, HORNBLENDE |
| 9812-0449A | MZ | 1/7/99 | 014DAP, FOOD SRVC, MAIN / NORTH/WEST | NON-HOMOGENEOUS, NON-FRIABLE, BEIGE/WHITE, PLASTER WALL, COATED MATERIAL | 0 | 0 | 0 | 0 | 2% CELLULOSE, PAINT, QUARTZ, GYPSUM, HORNBLENDE |
| 9812-0449B | MZ | 1/7/99 | 014DAP, FOOD SRVC, MAIN / NORTH/WEST | HOMOGENEOUS, NON-FRIABLE, BEIGE, PLASTER WALL, CEMENTITIOUS | 0 | 0 | 0 | 0 | 1% CELLULOSE, MICA, QUARTZ, GYPSUM, HORNBLENDE |
| 9812-0450A | MZ | 1/7/99 | 014DAP, FOOD SRVC, MAIN / NORTH/CENTER | NON-HOMOGENEOUS, NON-FRIABLE, BEIGE/WHITE, PLASTER WALL, COATED MATERIAL | 0 | 0 | 0 | 0 | <1% CELLULOSE, MICA, PAINT, QUARTZ, GYPSUM, HORNBLENDE |
| 9812-0450B | MZ | 1/7/99 | 014DAP, FOOD SRVC, MAIN / NORTH/CENTER | HOMOGENEOUS, NON-FRIABLE, BEIGE, PLASTER WALL, CEMENTITIOUS | 0 | 0 | 0 | 0 | 1% CELLULOSE, MICA, QUARTZ, GYPSUM, HORNBLENDE |
| 9812-0451 | MZ | 1/7/99 | 014DAP, FOOD SRVC, MAIN / NORTH/CENTER | NON-HOMOGENEOUS, FRIABLE, BROWN/WHITE, CEILING TILE, COATED SOLID FIBROUS | 0 | 0 | 0 | 0 | 56% CELLULOSE, PAINT |
| 9812-0452 | MZ | 1/7/99 | 014DAP, FOOD SRVC, MAIN / SOUTH/EAST | NON-HOMOGENEOUS, FRIABLE, BROWN/WHITE, CEILING TILE, COATED SOLID FIBROUS | 0 | 0 | 0 | 0 | 51% CELLULOSE, PAINT, QUARTZ |
| 9812-0453 | MZ | 1/7/99 | 014DAP, FOOD SRVC, MAIN / WEST/CENTER | NON-HOMOGENEOUS, FRIABLE, BROWN/WHITE, CEILING TILE, COATED SOLID FIBROUS | 0 | 0 | 0 | 0 | 48% CELLULOSE, PAINT |
| 9812-0454 | MZ | 1/7/99 | 014DAP, FOOD SRVC, MAIN / NORTH/CENTER | NON-HOMOGENEOUS, NON-FRIABLE, BRN/WHT/TAN, CEILING TILE ADHESIVE, SOLID W/FIBROUS LAYER | 0 | 0 | 0 | 0 | 18% CELLULOSE, BINDER, QUARTZ, HORNBLENDE |
| 9812-0455 | MZ | 1/7/99 | 014DAP, FOOD SRVC, MAIN / SOUTH/EAST | NON-HOMOGENEOUS, NON-FRIABLE, BRN/WHT/TAN, CEILING TILE ADHESIVE, SOLID W/FIBROUS LAYER | 0 | 0 | 0 | 0 | 13% CELLULOSE, BINDER, QUARTZ, HORNBLENDE |

Signature of Lab Supervisor: _____ Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
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Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 743-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 12/29/98


| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 9812-0456 | MZ | 1/7/99 | 014DAP, FOOD SRVC, MAIN / WEST/CENTER | NON-HOMOGENEOUS, NON-FRIABLE, BRN/WHT/TAN, CEILING TILE ADHESIVE, SOLID W/FIBROUS LAYER | 0 | 0 | 0 | 0 | 6% CELLULOSE, BINDER, QUARTZ, HORNBLENDE, ANTIGORITE |
| 9812-0457 | MZ | 1/7/99 | 014DAP, FOOD SRVC, MAIN / NORTH/CENTER | NON-HOMOGENEOUS, NON-FRIABLE, BROWN/WHITE, DRYWALL CEILING, CHALKY WITH PAPER | 0 | 0 | 0 | 0 | 14% CELLULOSE, GYPSUM, MICA, QUARTZ, HORNBLENDE |
| 9812-0458 | MZ | 1/7/99 | 014DAP, FOOD SRVC, MAIN / SOUTH/EAST | NON-HOMOGENEOUS, NON-FRIABLE, BROWN/WHITE, DRYWALL CEILING, CHALKY WITH PAPER | 0 | 0 | 0 | 0 | 19% CELLULOSE, GYPSUM, MICA, QUARTZ, HORNBLENDE |

Signature of Lab Supervisor: _____ Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
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# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: SAN PEDRO HIGH SCHOOL  CODE: 8850  PROJECT: MAINTENANCE (ELECTRICAL)

SAMPLED BY: RICARDO PARACUELLES  DEPT.: ATU/19  TEL. NO.: 763-1450  DATE SAMPLED: 12-28-98

Fill in all information Legibly and Precisely.  Sampler should make a copy before submitting to the lab.  DO NOT USE PENCIL  (Rev. 4/95)

Original to EHSB lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 9812-0459 | 18 | 014 DAP | FOOD SERVICE | MAIN AREA | W/CENTER | DRYWALL CEILING | YES (NO) |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
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| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT & SIGN: | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 12-29-98 | 1:42 | RICARDO PARACUELLES | ATU/19 | 1 |
| 12-29-98 | 1:45 | C Harnea / | EH&B | 1 |
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ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 12/29/98


| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 9812-0459A | RPC | 1/12/99 | 014DAP, FOOD SRVC, MAIN / WEST/CENTER | NON-HOMOGENEOUS, NON-FRIABLE, LIGHT PEACH, DRYWALL CEILING, SOLID/CHALKY | 0 | 0 | 0 | 0 | 5% CELLULOSE, BINDER |
| 9812-0459B | RPC | 1/12/99 | 014DAP, FOOD SRVC, MAIN / WEST/CENTER | NON-HOMOGENEOUS, NON-FRIABLE, WHITE, DRYWALL CEILING, SOLID/CHALKY | 0 | 0 | 0 | 0 | 5% CELLULOSE, BINDER |

Signature of Lab Supervisor: _____ Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
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# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: San Pedro SR  CODE: 0850  PROJECT: AHERA

SAMPLED BY: R. Bowie  DEPT.: 19 ATU  TEL. NO.: 763-1450  DATE SAMPLED: 3/11/99

Fill in all information Legibly and Precisely.  Sampler should make a copy before submitting to the lab.  *DO NOT USE PENCIL*  (Rev. 4/95)

Original to EHSB lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 9903-0308 | 1 | Z0182S | BB0182 | Rm B-3 | S/EAST | Ceiling 2x4 TILE | (YES) NO |
| 9903-0309 | 2 | ↓ | ↓ | Rm B-5 | N/WEST | ↓ | (YES) NO |
| 9903-0310 | 3 | ↓ | ↓ | Rm B-6 | W/CENTER | ↓ | (YES) NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT & SIGN: | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 3/11/99 | 1:30pm | Ray Bowie Ray Bowie | 19 ATU | 3 |
| 3-12-99 | 8 AM | NL-1500 C | EHSB | 3 |
| | | | | |
| | | | | |
| | | | | |

82 W. Sierra Madre Blvd
Sierra Madre, CA 91024
(626) 355-4711
(626) 355-4497 FAX

# Preliminary Analytical Results - Bulk Samples by PLM

To: Martha Martinez
From: Humberto Espinoza
Total # of pages:

Of: LAUSD
Date 3-23-99 Time
Urgent! Please deliver as soon as possible.

Client Job # 9903-0305-0307 Hygeia Ref # 71089-99-0046

| Client ID# | Asbestos % Chrysotile | Amosite | Crocidolite | Other | Non Detected | Comments |
|---|---|---|---|---|---|---|
| 9903-0305 | | | | | ✓ | |
| 06 | | | | | ✓ | |
| 07 | | | | | ✓ | |
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Preliminary results are subject to management review.
A formal report will be mailed within two days.
Message:

# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: SAN PEDRO H.S. CODE: 8850 PROJECT: REPAIR CEILING IN FACULTY DINING

SAMPLED BY: ANDY M. GUEVARRA DEPT.: CARP. 01 TEL. NO.: 310/515-3155 DATE SAMPLED: 8/11/99

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. DO NOT USE PENCIL (Rev. 4/95)

Original to EHSB lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 9908-0350 | 8850-01 | 003BCJ | HOME ECONOMICS | FACULTY DINING | W/ ABOVE SUSPENDED HEATER UNIT | CEILING PLASTER SAND FINISH | YES (NO) |
| 9908-0351 | 8850-02 | ↓ | ↓ | ↓ | S/EAST CORNER | ↓ | YES (NO) |
| 9908-0352 | 8850-03 | ↓ | ↓ | ↓ | N/WEST CORNER | ↓ | YES (NO) |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT & SIGN: | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 8/12/99 | 9:00 | A.M. GUEVARRA A.M.Guevarra | CARPENTRY / MO-7 | 3 |
| 8/12/99 | 2:00P | K.J. Montoya K.J. Montoya | Equip. / MO-7 | (3) |
| 8/13/99 | 8:10A | Charissa Richardson | EHSB | 3 |
| | | | | |
| | | | | |

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Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 743-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 8/13/99


| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 9908-0350 | JM | 8/19/99 | 003BCJ HOME ECON FAC DINING / WEST ABOVE SUSPENDED HEATER UNIT | NON-HOMOGENEOUS, NON-FRIABLE, GRAY, SAND PLASTER, CEMENTITIOUS | 0 | 0 | 0 | 0 | 3% CELLULOSE, 60% QUARTZ, 35% CEMENT |
| 9908-0351A | JM | 8/19/99 | 003BCJ HOME ECON FAC DINING / SOUTHEAST CORNER | NON-HOMOGENEOUS, NON-FRIABLE, GRAY, SAND PLASTER, COATED MATERIAL | <1 | 0 | 0 | <1 | 4% CELLULOSE, 60% QUARTZ, 10% PAINT, 25% CEMENT |
| 9908-0351B | JM | 8/19/99 | 003BCJ HOME ECON FAC DINING / SOUTHEAST CORNER | NON-HOMOGENEOUS, NON-FRIABLE, GRAY, SAND PLASTER, CEMENTITIOUS | 3 | 0 | 0 | 3 | 4% CELLULOSE, 60% QUARTZ, 33% CEMENT |
| 9908-0352 | JM | 8/19/99 | 003BCJ HOME ECON FAC DINING / NORTHWEST CORNER | NON-HOMOGENEOUS, NON-FRIABLE, GRAY, SAND PLASTER, CEMENTITIOUS | 0 | 0 | 0 | 0 | 5% CELLULOSE, 60% QUARTZ, 20% PAINT, 15% CEMENT |

Signature of Lab Supervisor: _____ Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
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This report relates to only the material tested.
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# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: SAN PEDRO SH  CODE: 8850  PROJECT: REPAIR FLOOR

SAMPLED BY: ANDY M. GUEVARRA  DEPT.: CARP. AA  TEL. NO.: 310/515-3155  DATE SAMPLED: 7/26/2000

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. DO NOT USE PENCIL (Rev. 4/95) 15

Original to EHSB lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0007-0585 | 8850-13 | 004-BDJ | ADMINISTRATION & CLASSROOM | RM. 215 | S/EAST CORNER | BATTLE SHIP LINOLEUM BROWN | YES (NO) |
| 0007-0586 | 8850-14 | ↓ | ↓ | ↓ | MIDDLE/WEST | ↓ | YES (NO) |
| 0007-0587 | 8850-15 | | | | N/EAST CORNER | | YES (NO) |
| 0007-0588 | 8850-16 | | | | S/WEST CORNER | BATTLESHIP LINOLEUM (UNDER CARPET) | YES (NO) |
| 0007-0589 | 8850-17 | | | | N/WEST CORNER | ↓ | YES (NO) |
| 0007-0590 | 8850-18 | | | | N/EAST CORNER | | YES (NO) |
| 0007-0591 | 8850-19 | | | | S/WEST | 12X12 FLOOR TILE BEIGE (PATCHES) | YES (NO) |
| 0007-0592 | 8850-20 | | | | MIDDLE/EAST | ↓ | YES (NO) |
| 0007-0593 | 8850-21 | ↓ | ↓ | ↓ | N/WEST | ↓ | YES (NO) |
| | Z | | | | | | YES NO |
| | | | | | | | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT & SIGN: | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 7/26/2000 | 11:00 | A.M. GUEVARRA | CARPENTRY/MO-K | (9) |
| 7-26-00 | 12:35 | W. SHANNON | EQUIP | |
| 7-26-00 | 2:00P | K.S. Mendoza | Equip | (9) |
| 7/26/00 | 3:05 pm | Martha M / DO | EHSB | 9 |
| | | | | |

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Environmental Health and Safety Branch
1449 S. San Pedro St.
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(213) 742-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 7/26/00


| SD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 0007-0585A | GS | 8/9/00 | 004BDJ ADMIN&CLASS RM 215 / S/EAST CORNER | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, BATTLESHIP/LINOLEUM, SOLID/FIBROUS | 0 | 0 | 0 | 0 | CELLULOSE 40 %, BINDER |
| 0007-0585B | GS | 8/9/00 | 004BDJ ADMIN&CLASS RM 215 / S/EAST CORNER | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, BATTLESHIP/MASTIC, TARLIKE | 0 | 0 | 0 | 0 | CELLULOSE 3% ,ADHESIVE |
| 0007-0586A | GS | 8/9/00 | 004BDJ ADMIN&CLASS RM 215 / MIDDLE/WEST | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, BATTLESHIP/LINOLEUM, SOLID/FIBROUS | 0 | 0 | 0 | 0 | CELLULOSE 40% , BINDER |
| 0007-0586B | GS | 8/9/00 | 004BDJ ADMIN&CLASS RM 215 / MIDDLE/WEST | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, BATTLESHIP/MASTIC, TARLIKE | 0 | 0 | 0 | 0 | CELLULOSE 3% , ADHESIVE |
| 0007-0587A | GS | 8/9/00 | 004BDJ ADMIN&CLASS RM 215 / N/EAST CORNER | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, BATTLESHIP/LINOLEUM, SOLID/FIBROUS | 0 | 0 | 0 | 0 | CELLULOSE 40% , BINDER |
| 0007-0587B | GS | 8/9/00 | 004BDJ ADMIN&CLASS RM 215 / N/EAST CORNER | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, BATTLESHIP/MASTIC, TARLIKE | 0 | 0 | 0 | 0 | CELLULOSE 3% , ADHESIVE |
| 0007-0588A | GS | 8/9/00 | 004BDJ ADMIN&CLASS RM 215 / S/WEST CORNER | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, BATTLESHIP/LINOLEUM, SOLID/FIBROUS | 0 | 0 | 0 | 0 | CELLULOSE 40% , BINDER |
| 0007-0588B | GS | 8/9/00 | 004BDJ ADMIN&CLASS RM 215 / S/WEST CORNER | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, BATTLESHIP/MASTIC, TARLIKE | 0 | 0 | 0 | 0 | CELLULOSE 3% , ADHESIVE |
| 0007-0589A | GS | 8/9/00 | 004BDJ ADMIN&CLASS RM 215 / N/WEST CORNER | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, BATTLESHIP/LINOLEUM, SOLID/FIBROUS | 0 | 0 | 0 | 0 | CELLULOSE 40% , BINDER |
| 0007-0589B | GS | 8/9/00 | 004BDJ ADMIN&CLASS RM 215 / N/WEST CORNER | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, BATTLESHIP/MASTIC, TARLIKE | 0 | 0 | 0 | 0 | CELLULOSE 3% , ADHESIVE |
| 0007-0590A | GS | 8/9/00 | 004BDJ ADMIN&CLASS RM 215 / N/EAST CORNER | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, BATTLESHIP/LINOLEUM, SOLID/FIBROUS | 0 | 0 | 0 | 0 | CELLULOSE 40% , BINDER |

ature of Lab Supervisor: E Galoustian Signature of Analyst: Gilda Shy

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
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Los Angeles Unified School District
Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 7/26/00


| SD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 0007-0590B | GS | 8/9/00 | 004BDJ ADMIN&CLASS RM 215 / N/EAST CORNER | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, BATTLESHIP/MASTIC, TARLIKE | 0 | 0 | 0 | 0 | CELLULOSE 3% , ADHESIVE |
| 0007-0591A | GS | 8/9/00 | 004BDJ ADMIN&CLASS RM 215 / S/WEST CORNER | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, FLOOR TILE, FLAT SOLID | 0 | 0 | 0 | 0 | BINDER |
| 0007-0591B | GS | 8/9/00 | 004BDJ ADMIN&CLASS RM 215 / S/WEST CORNER | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, FLOOR TILE, MASTIC, TARLIKE | 0 | 0 | 0 | 0 | CELLULOSE 10%, ADHESIVE |
| 0007-0592A | GS | 8/9/00 | 004BDJ ADMIN&CLASS RM 215 / MIDDLE/EAST | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, FLOOR TILE, FLAT SOLID | 0 | 0 | 0 | 0 | BINDER |
| 0007-0592B | GS | 8/9/00 | 004BDJ ADMIN&CLASS RM 215 / MIDDLE/EAST | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, FLOOR TILE, MASTIC, TARLIKE | 0 | 0 | 0 | 0 | CELLULOSE 10%, ADHESIVE |
| 0007-0593A | GS | 8/9/00 | 004BDJ ADMIN&CLASS RM 215 / N/WEST | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, FLOOR TILE, FLAT SOLID | 0 | 0 | 0 | 0 | BINDER |
| 0007-0593B | GS | 8/9/00 | 004BDJ ADMIN&CLASS RM 215 / N/WEST | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, FLOOR TILE, MASTIC, TARLIKE | 0 | 0 | 0 | 0 | CELLULOSE 10%, ADHESIVE |

iture of Lab Supervisor: G Gabourtian Signature of Analyst: Gida Hlug

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
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# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: SAN PEDRO SH  CODE: 8850  PROJECT: REPAIR CEILING PLASTER DUE TO RAIN DAMAGE

SAMPLED BY: ANDY M. GUEVARRA  DEPT.: CARP. AA  TEL. NO.: 310/515-3155  DATE SAMPLED: 10/16/00

Fill in all information Legibly and Precisely.  Sampler should make a copy before submitting to the lab.  DO NOT USE PENCIL  (Rev. 4/95) ST

Original to EHSB lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0010-0480 | 8850 - 01 | 0135CP | CLASSROOM BLDG # 2 | RETURN AIR PLENUM | N/EAST CORNER | CEILING PLASTER SAND FINISH | YES (NO) |
| 0010-0481 | 8850 - 02 | ↓ | ↓ | ↓ | MIDDLE/MIDDLE | ↓ | YES (NO) |
| 0010-0482 | 8850 - 03 | ↓ | ↓ | ↓ | S/WEST CORNER | ↓ | YES (NO) |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT & SIGN: | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 10/16/00 | 9:30 | A.M. GUEVARRA /AMGuevarra | CARPENTRY / MO-K | 3 |
| 10/16/00 | 10:20 AM | E-2 MOLANT | EHSB | 3 |
| | | | | |
| | | | | |
| | | | | |

Los Angeles Unified School District
Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 10/16/00


| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 0010-0480 | EZM | 10/16/00 | 013BCP,CLS/BL2,RTRN AIR PLNUM / NORTH/EAST CORNER | HOMOGENEOUS, NON-FRIABLE, GRAY, PLASTER CEILING, CEMENTITIOUS | 0 | 0 | 0 | 0 | 3% CELLULOSE, QUARTZ, CALCITE |
| 0010-0481 | EZM | 10/16/00 | 013BCP,CLS/BL2,RTRN AIR PLNUM / MIDDLE/MIDDLE | HOMOGENEOUS, NON-FRIABLE, GRAY, PLASTER CEILING, CEMENTITIOUS | 0 | 0 | 0 | 0 | 3% CELLULOSE, QUARTZ, CALCITE |
| 0010-0482 | EZM | 10/16/00 | 013BCP,CLS/BL2,RTRN AIR PLNUM / SOUTH/WEST CORNER | HOMOGENEOUS, NON-FRIABLE, GRAY, PLASTER CEILING, CEMENTITIOUS | 0 | 0 | 0 | 0 | 3% CELLULOSE, QUARTZ, CALCITE |

Signature of Lab Supervisor: _____ Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
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# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: SAN PEDRO SH  CODE: 8850  PROJECT: REPAIR FLOOR TILE

SAMPLED BY: ANDY M. GUEVARRA  DEPT.: CARP. AA  TEL. NO.: 310/515-3155  DATE SAMPLED: 12/6/00

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. DO NOT USE PENCIL (Rev. 4/95) J.A

Original to EHSB lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0012-0986 | 8850-11 | X2384P | AA-2384 | Room B-13 | S/WEST | 12x12 FLOOR TILE SAND/BROWN | YES (NO) |
| 0012-0987 | 8850-12 | ↓ | ↓ | ↓ | N/WEST | ↓ | YES (NO) |
| 0012-0988 | 8850-13 | | | | N/EAST | | YES (NO) |
| 0012-0989 | 8850-14 | | | | S/WEST BY DOOR ENTRY | 12x12 FLOOR TILE LT. BROWN/CREME PATCH-IN-REPAIRS | YES (NO) |
| 0012-0990 | 8850-15 | | | | S/WEST MIDDLE-SOUTH OF PATCH-IN | ↓ | YES (NO) |
| 0012-0991 | 8850-16 | | | | S/WEST S/E OF PATCH-IN | | YES (NO) |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT & SIGN: | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 12/7/00 | 9:30 | A.M. GUEVARRA A.M. Guevarra | CARPENTRY / MO-K | (6) OF 16 |
| 12/8/00 | 12:50 Pm | W. Houston - W. Houston | Maint. MO-K | (6) OF 16 |
| 12/8/00 | 1:40 pm | Erich Galonski | EHS | (6) |

Pg. 2 of 2

Los Angeles Unified School District
Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 12/8/00


| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 0012-0986 | EZM | 12/9/00 | X2384P, AA2384, RM. B-13 / SOUTH/WEST | HOMOGENEOUS, NON-FRIABLE, SAND/BROWN, FLOOR TILE, FLAT SOLID | 0 | 0 | 0 | 0 | CALCITE, QUARTZ |
| 0012-0987 | EZM | 12/9/00 | X2384P, AA2384, RM. B-13 / NORTH/WEST | HOMOGENEOUS, NON-FRIABLE, SAND/BROWN, FLOOR TILE, FLAT SOLID | 0 | 0 | 0 | 0 | CALCITE, QUARTZ |
| 0012-0988 | EZM | 12/9/00 | X2384P, AA2384, RM. B-13 / NORTH/EAST | HOMOGENEOUS, NON-FRIABLE, SAND/BROWN, FLOOR TILE, FLAT SOLID | 0 | 0 | 0 | 0 | CALCITE, QUARTZ |
| 0012-0989 | EZM | 12/9/00 | X2384P, AA2384, RM. B-13 / SOUTH/WEST BY DOOR ENTRY | HOMOGENEOUS, NON-FRIABLE, BROWN/CREAM, FLOOR TILE, FLAT SOLID | 0 | 0 | 0 | 0 | CALCITE, QUARTZ |
| 0012-0990A | EZM | 12/9/00 | X2384P, AA2384, RM. B-13 / SOUTH/WEST MIDDLE SOUTH OF PATCH IN | HOMOGENEOUS, NON-FRIABLE, BROWN/CREAM, FLOOR TILE, FLAT SOLID | 0 | 0 | 0 | 0 | CALCITE, QUARTZ |
| 0012-0990B | EZM | 12/9/00 | X2384P, AA2384, RM. B-13 / SOUTH/WEST MIDDLE SOUTH OF PATCH IN | HOMOGENEOUS, NON-FRIABLE, TAN, FLOOR TILE, MASTIC, MASTIC | 0 | 0 | 0 | 0 | 3% CELLULOSE, BINDE |
| 0012-0991A | EZM | 12/9/00 | X2384P, AA2384, RM. B-13 / SOUTH/WEST SE OF PATCH-IN | HOMOGENEOUS, NON-FRIABLE, BROWN/CREAM, FLOOR TILE, FLAT SOLID | 0 | 0 | 0 | 0 | CALCITE, QUARTZ |
| 0012-0991B | EZM | 12/9/00 | X2384P, AA2384, RM. B-13 / SOUTH/WEST SE OF PATCH-IN | HOMOGENEOUS, NON-FRIABLE, TAN, FLOOR TILE, MASTIC, MASTIC | 0 | 0 | 0 | 0 | 3% CELLULOSE, BINDER |

Signature of Lab Supervisor: _____ Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
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6/6/01

# ASBESTOS SURVEY REPORT

LOS ANGELES UNIFIED SCHOOL DISTRICT - SAN PEDRO HIGH SCHOOL NO. 8850

SAN PEDRO, CALIFORNIA

## Bulk Sample Log

| Sample No. | Type of Material | Estimated Quantity | Floor/ Level | Sample Location | Pos/ Neg | % Asbestos | Asbestos Type | Friability; Condition | Air Erosion; Contact; Vibration |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Plaster Wall - Sand-Finish | 10,000 SF | 1 | Bldg. 2/013BCP - Northwest Hallway | N | ND | | | |
| 2 | Plaster Wall - Sand-Finish | (R1) | 1 | Bldg. 2/013BCP - Center South | N | ND | | | |
| 3 | Plaster Wall - Sand-Finish | (R1) | 1 | Bldg. 2/013BCP - South East | N | ND | | | |
| 4 | Acoustical Ceiling Tile (12"x12") - Random Holes | 8,020 SF | 2 | Bldg. 2/013BCP - Room 251 | N | ND | | | |
| 5 | Acoustical Ceiling Tile (12"x12") - Random Holes | (R4) | 2 | Bldg. 2/013BCP - Room 247 | N | ND | | | |
| 6 | Acoustical Ceiling Tile (12"x12") - Random Holes | (R4) | 2 | Bldg. 2/013BCP - Room 242 | N | ND | | | |
| 7 | Acoustical Ceiling Tile Mastic - Brown | 2,000 SF | 2 | Bldg. 2/013BCP - Room 251 | N | ND | | | |
| 8 | Acoustical Ceiling Tile Mastic - Brown | (R7) | 2 | Bldg. 2/013BCP - Room 247 | N | ND | | | |
| 9 | Acoustical Ceiling Tile Mastic - Brown | (R7) | 2 | Bldg. 2/013BCP - Room 242 | N | ND | | | |
| 10 | Joint Compound | 400 SF | 1 | Bldg. 2/013BCP - Room 149 - Storage | * | | | | |

* = PLM Sample Analysis <1% Asbestos; Re-Analysis by Point Co ≤ 0.1% Asbestos ** = Sample Not Analyzed - Insufficient Material

* = Asbestos was identified in the joint compound, not the wallboard.

(R#) denotes that the estimated material quantity for the area has been included in referenced sample number.

4/16/01

# ASBESTOS SURVEY REPORT

LOS ANGELES UNIFIED SCHOOL DISTRICT - SAN PEDRO HIGH SCHOOL NO. 8850

SAN PEDRO, CALIFORNIA

## Bulk Sample Log

| Sample No. | Type of Material | Estimated Quantity | Floor/ Level | Sample Location | Pos/ Neg | % | Asbestos Type | Friability; Condition | Air Erosion; Contact; Vibration |
|---|---|---|---|---|---|---|---|---|---|
| 11 | Joint Compound | (R10) | 1 | Bldg. 2/013BCP - Room 149 - Storage | * | | | | |
| 12 | Joint Compound | (R10) | 1 | Bldg. 2/013BCP - Room 149 - Storage | * | | | | |
| 13 | Wallboard | 600 SF | 1 | Bldg. 2/013BCP - Room 149 - Storage | * | | | | |
| 14 | Wallboard | (R14) | 1 | Bldg. 2/013BCP - Room 149 - Storage | * | | | | |
| 15 | Wallboard | (R14) | 1 | Bldg. 2/013BCP - Room 149 - Storage | N | ND | | | |
| 16 | Exterior Stucco | 44,597 SF | Ext. | Bldg. 2/013BCP - | * | | | | |
| 17 | Window Putty | 20,000 SF | Ext. | Bldg. 2/013BCP - Upper Level - North Side | * | | | | |
| 18 | Window Putty | (R17) | Ext. | Bldg. 2/013BCP - Upper Level - South Side | N | ND | | | |
| 19 | Window Putty | (R17) | Ext. | Bldg. 2/013BCP - Lower Level - North Side | N | ND | | | |
| 20 | Window Putty | 1,000 SF | | Industrial Arts Bldg./001CBJ - Room 160 | * | | | | |

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(R#) denotes that the estimated material quantity for the area has been included in referenced sample number.

6/6/01

# ASBESTOS SURVEY REPORT

LOS ANGELES UNIFIED SCHOOL DISTRICT - SAN PEDRO HIGH SCHOOL NO. 8850

SAN PEDRO, CALIFORNIA

## Bulk Sample Log

| Sample No. | Type of Material | Estimated Quantity | Floor/ Level | Sample Location | Pos/ Neg | % | Asbestos Type | Friability; Condition | Air Erosion; Contact; Vibration |
|---|---|---|---|---|---|---|---|---|---|
| 21 | Window Putty | (R21) | | Industrial Arts Bldg./001CBJ - Room 161 | * | | | | |
| 22 | Window Putty | (R21) | | Industrial Arts Bldg./001CBJ - Room 163 | * | | | | |
| 23 | Acoustical Ceiling Tile (12"x12") - Random Holes | 10,000 SF | | Industrial Arts Bldg./001CBJ - Room 160 | N | ND | | | |
| 24 | Acoustical Ceiling Tile (12"x12") - Random Holes | (R23) | | Industrial Arts Bldg./001CBJ - Room 160 | N | ND | | | |
| 25 | Acoustical Ceiling Tile (12"x12") - Random Holes | (R23) | | Industrial Arts Bldg./001CBJ - Room 160 | N | ND | | | |
| 26 | Acoustical Ceiling Tile Mastic - Brown | (R23) | | Industrial Arts Bldg./001CBJ - Room 160 | N | ND | | | |
| 27 | Acoustical Ceiling Tile Mastic - Brown | (R23) | | Industrial Arts Bldg./001CBJ - Room 160 | N | ND | | | |
| 28 | Acoustical Ceiling Tile Mastic - Brown | (R23) | | Industrial Arts Bldg./001CBJ - Room 160 | N | ND | | | |
| 29 | Pipe Fitting Insulation | 100 EA | | Industrial Arts Bldg./001CBJ - Room 160 | P | 30 | Chrysotile | Friable<br>Fair | Moderate<br>Moderate<br>Moderate |
| 30 | Pipe Fitting Insulation | (R29) | | Industrial Arts Bldg./001CBJ - Room 161 | N | ND | | | |

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(R#) denotes that the estimated material quantity for the area has been included in referenced sample number.

# ASBESTOS SURVEY REPORT

LOS ANGELES UNIFIED SCHOOL DISTRICT - SAN PEDRO HIGH SCHOOL NO. 8850
SAN PEDRO, CALIFORNIA

## Bulk Sample Log

| Sample No. | Type of Material | Estimated Quantity | Floor/ Level | Sample Location | Pos/ Neg | % | Asbestos Type | Friability; Condition | Air Erosion; Contact; Vibration |
|---|---|---|---|---|---|---|---|---|---|
| 31 | Pipe Fitting Insulation | (R29) | | Industrial Arts Bldg./001CBJ - Room 164 | N | ND | | | |
| 32 | Plaster Wall - Smooth Finish | 800 SF | | Industrial Arts Bldg./001CBJ - Room 161 | N | ND | | | |
| 33 | Plaster Wall - Smooth Finish | (R32) | | Industrial Arts Bldg./001CBJ - Room 161 | N | ND | | | |
| 34 | Plaster Wall - Smooth Finish | (R32) | | Industrial Arts Bldg./001CBJ - Room 161 | N | ND | | | |
| 35 | Acoustical Ceiling Tile (12"x12") - Straight Holes | 400 SF | | Industrial Arts Bldg./001CBJ - Faculty Lounge Room 162 | N | ND | | | |
| 36 | Acoustical Ceiling Tile (12"x12") - Straight Holes | (R35) | | Industrial Arts Bldg./001CBJ - Faculty Lounge Room 162 | N | ND | | | |
| 37 | Acoustical Ceiling Tile (12"x12") - Straight Holes | (R35) | | Industrial Arts Bldg./001CBJ - Faculty Lounge Room 162 | N | ND | | | |
| 38 | Acoustical Ceiling Tile Mastic - Brown | 350 SF | | Industrial Arts Bldg./001CBJ - Faculty Lounge Room 162 | N | ND | | | |
| 39 | Acoustical Ceiling Tile Mastic - Brown | (R38) | | Industrial Arts Bldg./001CBJ - Faculty Lounge Room 162 | N | ND | | | |
| 40 | Acoustical Ceiling Tile Mastic - Brown | (R38) | | Industrial Arts Bldg./001CBJ - Faculty Lounge Room 162 | N | ND | | | |

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*** = Asbestos was identified in the joint compound, not the wallboard.
(R#) denotes that the estimated material quantity for the area has been included in referenced sample number.

6/6/01

# ASBESTOS SURVEY REPORT

LOS ANGELES UNIFIED SCHOOL DISTRICT - SAN PEDRO HIGH SCHOOL NO. 8850
SAN PEDRO, CALIFORNIA

## Bulk Sample Log

| Sample No. | Type of Material | Estimated Quantity | Floor/ Level | Sample Location | Pos/ Neg | % | Asbestos Type | Friability; Condition | Air Erosion; Contact; Vibration |
|---|---|---|---|---|---|---|---|---|---|
| 41 | Wallboard - Brown - Ceiling | 10,000 SF | | Industrial Arts Bldg./001CBJ - Room 164 | *** | | | | |
| 42 | Wallboard - Brown - Ceiling | (R41) | | Industrial Arts Bldg./001CBJ - Room 164 | *** | | | | |
| 43 | Wallboard - Brown - Ceiling | (R41) | | Industrial Arts Bldg./001CBJ - Room 164 | *** | | | | |
| 44 | Plaster Wall - Sand-Finish | 11,000 SF | 1 | Shop Bldg./015DCS - Room 165 | N | ND | | | |
| 45 | Plaster Wall - Sand-Finish | (R44) | 1 | Shop Bldg./015DCS - Small Restroom | N | ND | | | |
| 46 | Plaster Wall - Sand-Finish | (R44) | 1 | Shop Bldg./015DCS - Room 166 | N | ND | | | |
| 47 | Acoustical Wall Tile (12"x12") | 700 SF | 1 | Shop Bldg./015DCS - Room 165 | N | ND | | | |
| 48 | Acoustical Wall Tile (12"x12") | (R47) | 1 | Shop Bldg./015DCS - Room 165 | N | ND | | | |
| 49 | Acoustical Wall Tile (12"x12") | (R47) | 1 | Shop Bldg./015DCS - Room 165 | N | ND | | | |
| 50 | Joint Compound | 900 SF | 1 | Shop Bldg./015DCS - Room 166 | N | ND | | | |

* = PLM Sample Analysis <1% Asbestos; Re-Analysis by Point Co ≤ 0.1% Asbestos  ** = Sample Not Analyzed - Insufficient Material
*** = Asbestos was identified in the joint compound, not the wallboard.
(R#) denotes that the estimated material quantity for the area has been included in referenced sample number.

# ASBESTOS SURVEY REPORT

LOS ANGELES UNIFIED SCHOOL DISTRICT - SAN PEDRO HIGH SCHOOL NO. 8850

SAN PEDRO, CALIFORNIA

## Bulk Sample Log

| Sample No. | Type of Material | Estimated Quantity | Floor/ Level | Sample Location | Pos/ Neg | % | Asbestos Type | Friability; Condition | Air Erosion; Contact; Vibration |
|---|---|---|---|---|---|---|---|---|---|
| 51 | Joint Compound | (R50) | 1 | Shop Bldg./015DCS - Room 166 | N | ND | | | |
| 52 | Joint Compound | (R50) | 1 | Shop Bldg./015DCS - Room 166 | N | ND | | | |
| 53 | Wallboard - Wall | 900 SF | 1 | Shop Bldg./015DCS - Room 166 | N | ND | | | |
| 54 | Wallboard - Wall | (R53) | 1 | Shop Bldg./015DCS - Room 166 | N | ND | | | |
| 55 | Wallboard - Wall | (R53) | 1 | Shop Bldg./015DCS - Room 166 | N | ND | | | |
| 56 | Window Putty | 80 SF | Ext. | Auditorium Bldg./002BAJ - Stage Area | N | ND | | | |
| 57 | Window Putty | (R56) | Ext. | Auditorium Bldg./002BAJ - Basement | N | ND | | | |
| 58 | Window Putty | (R56) | Ext. | Auditorium Bldg./002BAJ - Basement | N | ND | | | |
| 59 | Window Putty | 2,000 SF | 1 | Classroom Bldg. #1/005BCJ - Exterior Window | * | | | | |
| 60 | Window Putty | (R59) | 1 | Classroom Bldg. #1/005BCJ - Exterior Window | * | | | | |

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# ASBESTOS SURVEY REPORT

LOS ANGELES UNIFIED SCHOOL DISTRICT - SAN PEDRO HIGH SCHOOL NO. 8850

SAN PEDRO, CALIFORNIA

## Bulk Sample Log

| Sample No. | Type of Material | Estimated Quantity | Floor/ Level | Sample Location | Pos/ Neg | % | Asbestos Type | Friability; Condition | Air Erosion; Contact; Vibration |
|---|---|---|---|---|---|---|---|---|---|
| 61 | Window Putty | (R59) | 1 | Classroom Bldg. #1/005BCJ - Exterior Window | N | ND | | | |
| 62 | Exterior Stucco | 26,609 SF | 1 | Classroom Bldg. #1/005BCJ - Exterior Wall | * | | | | |
| 63 | Exterior Stucco | (R62) | 1 | Classroom Bldg. #1/005BCJ - Exterior Wall | * | | | | |
| 64 | Acoustical Ceiling Tile (12"x12") - Random Holes | 850 SF | | Bldg. X1007M - Room B-1 | N | ND | | | |
| 65 | Acoustical Ceiling Tile (12"x12") - Random Holes | (R64) | | Bldg. X1007M - Room B-1 | N | ND | | | |
| 66 | Acoustical Ceiling Tile (12"x12") - Random Holes | (R64) | | Bldg. X1007M - Room B-1 | N | ND | | | |
| 67 | Acoustical Ceiling Tile (12"x12") - Straight Holes | (R64) | | Bldg. X1007M - Room B-2 | N | ND | | | |
| 68 | Acoustical Ceiling Tile (12"x12") - Straight Holes | (R64) | | Bldg. X1007M - Room B-2 | N | ND | | | |
| 69 | Acoustical Ceiling Tile (12"x12") - Straight Holes | (R64) | | Bldg. X1007M - Room B-2 | N | ND | | | |
| 70 | Plaster Ceiling - Brown | 1,500 SF | 2 | Bldg. BB0182/Z0182S - Arcade | N | ND | | | |

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# ASBESTOS SURVEY REPORT

LOS ANGELES UNIFIED SCHOOL DISTRICT - SAN PEDRO HIGH SCHOOL NO. 8850

SAN PEDRO, CALIFORNIA

## Bulk Sample Log

| Sample No. | Type of Material | Estimated Quantity | Floor/ Level | Sample Location | Pos/ Neg | % | Asbestos Type | Friability; Condition | Air Erosion; Contact; Vibration |
|---|---|---|---|---|---|---|---|---|---|
| 71 | Plaster Ceiling - Brown | (R70) | 1 | Bldg. BB0182/Z0182S - Arcade | * | | | | |
| 72 | Plaster Ceiling - Brown | (R70) | 1 | Bldg. BB0182/Z0182S - Arcade | * | | | | |
| 73 | Wallboard - Yellow Paint - Wallboard | 3,500 SF | | Bldg. BB0182/Z0182S - Room B-4 | N | ND | | | |
| 74 | Wallboard - Beige Paint - Wallboard | (R73) | | Bldg. BB0182/Z0182S - Room B-3 | *** | | | | |
| 75 | Wallboard - Blue Paint - Wallboard | (R73) | | Bldg. BB0182/Z0182S - Room B-6 | N | ND | | | |
| 76 | Baseboard Mastic - Brown | 100 SF | | Bldg. BB0182/Z0182S - Room B-4 | N | ND | | | |
| 77 | Baseboard Mastic - Brown | (R76) | | Bldg. BB0182/Z0182S - Room B-3 | N | ND | | | |
| 78 | Baseboard Mastic - Brown | (R76) | | Bldg. BB0182/Z0182S - Room B-6 | N | ND | | | |
| 79 | Acoustical Ceiling Tile (12"x12") - Random Holes | 900 SF | | Bldg. X0244K - Room B-16 | N | ND | | | |
| 80 | Acoustical Ceiling Tile (12"x12") - Random Holes | (R79) | | Bldg. X0244K - Room B-16 | N | ND | | | |

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(R#) denotes that the estimated material quantity for the area has been included in referenced sample number.

# ASBESTOS SURVEY REPORT

LOS ANGELES UNIFIED SCHOOL DISTRICT - SAN PEDRO HIGH SCHOOL NO. 8850

SAN PEDRO, CALIFORNIA

## Bulk Sample Log

| Sample No. | Type of Material | Estimated Quantity | Floor/ Level | Sample Location | Pos/ Neg | % | Asbestos Type | Friability; Condition | Air Erosion; Contact; Vibration |
|---|---|---|---|---|---|---|---|---|---|
| 81 | Acoustical Ceiling Tile (12"x12") - Random Holes | (R79) | | Bldg. X0244K - Room B-16 | N | ND | | | |
| 82 | Baseboard Mastic - Brown | 125 SF | | Bldg. X0244K - Room B-16 | N | ND | | | |
| 83 | Baseboard Mastic - Brown | (R82) | | Bldg. X0244K - Room B-16 | N | ND | | | |
| 84 | Baseboard Mastic - Brown | (R82) | | Bldg. X0244K - Room B-16 | N | ND | | | |
| 85 | Acoustical Ceiling Tile (12"x12") - Random Holes | 900 SF | | Bldg. X0347L - Room B-19 | N | ND | | | |
| 86 | Acoustical Ceiling Tile (12"x12") - Random Holes | (R85) | | Bldg. X0347L - Room B-19 | N | ND | | | |
| 87 | Acoustical Ceiling Tile (12"x12") - Random Holes | (R85) | | Bldg. X0347L - Room B-19 | N | ND | | | |
| 88 | Acoustical Ceiling Tile (12"x12") - Straight Holes | 900 SF | | Bldg. X0347L - Room B-18 | N | ND | | | |
| 89 | Acoustical Ceiling Tile (12"x12") - Straight Holes | (R88) | | Bldg. X0347L - Room B-18 | N | ND | | | |
| 90 | Acoustical Ceiling Tile (12"x12") - Straight Holes | (R88) | | Bldg. X0347L - Room B-18 | N | ND | | | |

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6/6/01

# ASBESTOS SURVEY REPORT

LOS ANGELES UNIFIED SCHOOL DISTRICT - SAN PEDRO HIGH SCHOOL NO. 8850

SAN PEDRO, CALIFORNIA

## Bulk Sample Log

| Sample No. | Type of Material | Estimated Quantity | Floor/ Level | Sample Location | Pos/ Neg | % | Asbestos Type | Friability; Condition | Air Erosion; Contact; Vibration |
|---|---|---|---|---|---|---|---|---|---|
| 91 | Window Putty | 25 SF | | Bldg. X2383P - Room B-11 | N | ND | | | |
| 92 | Window Putty | (R91) | | Bldg. X2383P - Room B-11 | N | ND | | | |
| 93 | Window Putty | (R91) | | Bldg. X2383P - Room B-11 | N | ND | | | |
| 94 | Sand Finish Wall Plaster | 18,284 SF | 1 | Home Economics/003BCJ - Hallway | N | ND | | | |
| 95 | Sand Finish Wall Plaster | (R94) | 2 | Home Economics/003BCJ - Hallway - East | N | ND | | | |
| 96 | Sand Finish Wall Plaster | (R94) | 2 | Home Economics/003BCJ - Hallway - West | N | ND | | | |
| 97 | Window Putty | 300 SF | 2 | Admin. Bldg./004BDJ - Library | N | ND | | | |
| 98 | Window Putty | (R97) | 2 | Admin. Bldg./004BDJ - Library | * | | | | |
| 99 | Window Putty | (R97) | 2 | Admin. Bldg./004BDJ - Library | * | | | | |
| 100 | Sand Finish Wall Plaster | 44,000 SF | 1 | Admin. Bldg./004BDJ - Hallway | N | ND | | | |

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9/6/01

# ASBESTOS SURVEY REPORT

LOS ANGELES UNIFIED SCHOOL DISTRICT - SAN PEDRO HIGH SCHOOL NO. 8850

SAN PEDRO, CALIFORNIA

## Bulk Sample Log

| Sample No. | Type of Material | Estimated Quantity | Floor/ Level | Sample Location | Pos/ Neg | % | Asbestos Type | Friability; Condition | Air Erosion; Contact; Vibration |
|---|---|---|---|---|---|---|---|---|---|
| 101 | Sand Finish Wall Plaster | (R100) | 1 | Admin. Bldg./004BDJ - Hallway | N | ND | | | |
| 102 | Sand Finish Wall Plaster | (R100) | 2 | Admin. Bldg./004BDJ - Hallway | N | ND | | | |
| 103 | Acoustical Ceiling Tile (12"x12") - Straight Holes | 40,000 SF | 1 | Admin. Bldg./004BDJ - Room 111 | N | ND | | | |
| 104 | Acoustical Ceiling Tile (12"x12") - Straight Holes | (R103) | 1 | Admin. Bldg./004BDJ - Room 111 | N | ND | | | |
| 105 | Window Putty | 200 SF | | Admin. Bldg./004BDJ - Middle Landing - North | N | ND | | | |
| 106 | Window Putty | (R105) | | Admin. Bldg./004BDJ - Middle Landing - North | N | ND | | | |
| 107 | Acoustical Ceiling Tile Mastic - Brown | 40,000 SF | 1 | Admin. Bldg./004BDJ - Room 111 | N | ND | | | |
| 108 | Acoustical Ceiling Tile Mastic - Brown | (R107) | 1 | Admin. Bldg./004BDJ - Room 111 | N | ND | | | |
| 109 | Plaster Wall - Smooth Finish | 30,000 SF | 1 | Admin. Bldg./004BDJ - Men's Lounge | N | ND | | | |
| 110 | Sand Plaster Ceiling | 44,000 SF | 1 | Admin. Bldg./004BDJ - Hallway Men's Facility | N | ND | | | |

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9/6/01

# ASBESTOS SURVEY REPORT

LOS ANGELES UNIFIED SCHOOL DISTRICT - SAN PEDRO HIGH SCHOOL NO. 8850

SAN PEDRO, CALIFORNIA

## Bulk Sample Log

| Sample No. | Type of Material | Estimated Quantity | Floor/ Level | Sample Location | Pos/ Neg | % | Asbestos Type | Friability; Condition | Air Erosion; Contact; Vibration |
|---|---|---|---|---|---|---|---|---|---|
| 111 | Acoustical Ceiling Tile (12"x12") - Straight Holes | 1,000 SF | | P. E. Bldg./006CBJ - Boy's Gym - Weight Room | N | ND | | | |
| 112 | Acoustical Ceiling Tile (12"x12") - Straight Holes | (R111) | | P. E. Bldg./006CBJ - Boy's Gym - Weight Room | N | ND | | | |
| 113 | Acoustical Ceiling Tile Mastic - Brown | 900 SF | | P. E. Bldg./006CBJ - Boy's Gym - Weight Room | N | ND | | | |
| 114 | Acoustical Ceiling Tile Mastic - Brown | (R113) | | P. E. Bldg./006CBJ - Coach's Office | N | ND | | | |
| 115 | Acoustical Ceiling Tile Mastic - Brown | (R113) | | P. E. Bldg./006CBJ - Coach's Office | N | ND | | | |
| 116 | Exterior Stucco | 22,975 SF | Ext. | P. E. Bldg./006CBJ - Gym - North End | * | | | | |
| 117 | Exterior Stucco | (R116) | Ext. | P. E. Bldg./006CBJ - Gym - Southwest | * | | | | |
| 118 | Drop-In Acoustical Wall Panel (2'x4') - Random Holes | 1,000 SF | | Bldg. AA2798 - Alumni Center | N | ND | | | |
| 119 | Drop-In Acoustical Ceiling Panel (2'x4') - Random Holes | (R118) | | Bldg. AA2798 - Alumni Center | N | ND | | | |
| 120 | Drop-In Acoustical Ceiling Panel (2'x4') - Random Holes | (R118) | | Bldg. AA2798 - Alumni Center | N | ND | | | |

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4/6/01

# ASBESTOS SURVEY REPORT

LOS ANGELES UNIFIED SCHOOL DISTRICT - SAN PEDRO HIGH SCHOOL NO. 8850
SAN PEDRO, CALIFORNIA

## Bulk Sample Log

| Sample No. | Type of Material | Estimated Quantity | Floor/ Level | Sample Location | Pos/ Neg | % | Asbestos Type | Friability; Condition | Air Erosion; Contact; Vibration |
|---|---|---|---|---|---|---|---|---|---|
| 181 | Drop-In Acoustical Ceiling Panel (2'x4') | 1,000 SF | | Bldg. A1261W - Room B-20 | N | ND | | | |
| 182 | Drop-In Acoustical Ceiling Panel (2'x4') | (R181) | | Bldg. A1261W - Room B-20 | N | ND | | | |
| 183 | Drop-In Acoustical Ceiling Panel (2'x4') | (R181) | | Bldg. A1261W - Room B-20 | N | ND | | | |
| 184 | Drop-In Acoustical Ceiling Panel (2'x4') | 1,000 SF | | Bldg. A1262W - Room B-26 | N | ND | | | |
| 185 | Drop-In Acoustical Ceiling Panel (2'x4') | (R184) | | Bldg. A1262W - Room B-26 | N | ND | | | |
| 186 | Drop-In Acoustical Ceiling Panel (2'x4') | (R184) | | Bldg. A1262W - Room B-26 | N | ND | | | |
| 187 | Wallboard - Ceiling | 900 SF | | Girl's Gym/10DP - Ticket Room | N | ND | | | |
| 188 | Wallboard - Ceiling | (R187) | | Girl's Gym/10DP - Gym Storage | N | ND | | | |
| 189 | Wallboard - Ceiling | (R187) | | Girl's Gym/10DP - Girl's Restroom | N | ND | | | |
| 190 | Joint Compound - Ceiling | 900 SF | | Girl's Gym/10DP - Gym Storage | * | | | | |

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6/6/01

# ASBESTOS SURVEY REPORT

LOS ANGELES UNIFIED SCHOOL DISTRICT - SAN PEDRO HIGH SCHOOL NO. 8850

SAN PEDRO, CALIFORNIA

## Bulk Sample Log

| Sample No. | Type of Material | Estimated Quantity | Floor/ Level | Sample Location | Pos/ Neg | % | Asbestos Type | Friability; Condition | Air Erosion; Contact; Vibration |
|---|---|---|---|---|---|---|---|---|---|
| 191 | Joint Compound - Ceiling | (R190) | | Girl's Gym/10DP - Girl's Storage | * | | | | |
| 192 | Joint Compound - Ceiling | (R190) | | Girl's Gym/10DP - Girl's Restroom | ** | | | | |
| 193 | Plaster Ceiling - Sand-Finish | 2,500 SF | | Girl's Gym/10DP - Storage Room | N | ND | | | |
| 194 | Plaster Ceiling - Sand-Finish | (R193) | | Girl's Gym/10DP - Janitor's Closet | N | ND | | | |
| 195 | Plaster Ceiling - Sand-Finish | (R193) | | Girl's Gym/10DP - Storage Room | N | ND | | | |
| 196 | Window Putty | 250 SF | | Girl's Gym/10DP - Exterior | N | ND | | | |
| 197 | Window Putty | (R196) | | Girl's Gym/10DP - Exterior | * | | | | |
| 198 | Window Putty | (R196) | | Girl's Gym/10DP - Exterior | * | | | | |
| 199 | Exterior Stucco | 7,500 SF | 1 | Shop Bldg./015DCS - Exterior | * | | | | |
| 200 | Exterior Stucco | (R199) | LL | Shop Bldg./015DCS - Exterior | N | ND | | | |

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6-6-01

# ASBESTOS SURVEY REPORT

LOS ANGELES UNIFIED SCHOOL DISTRICT - SAN PEDRO HIGH SCHOOL NO. 8850
SAN PEDRO, CALIFORNIA

## Bulk Sample Log

| Sample No. | Type of Material | Estimated Quantity | Floor/ Level | Sample Location | Pos/ Neg | % | Asbestos Type | Friability; Condition | Air Erosion; Contact; Vibration |
|---|---|---|---|---|---|---|---|---|---|
| 201 | Exterior Stucco | (R199) | LL | Shop Bldg./015DCS - Exterior | * | | | | |
| 202 | Sand Plaster Ceiling | 150 SF | 1 | Shop Bldg./015DCS - Hot Water Closet | N | ND | | | |
| 203 | Sand Plaster Ceiling | (R202) | 1 | Shop Bldg./015DCS - Hopper Room | N | ND | | | |
| 204 | Sand Plaster Ceiling | (R202) | 1 | Shop Bldg./015DCS - Hopper Room | N | ND | | | |
| 205 | Plaster Ceiling - Smooth Finish | 2,500 SF | 1 | Auditorium/002DAJ - Boy's Restroom | N | ND | | | |
| 206 | Plaster Ceiling - Smooth Finish | (R205) | 1 | Auditorium/002DAJ - Girl's Restroom | N | ND | | | |
| 207 | Plaster Ceiling - Smooth Finish | (R205) | 1 | Auditorium/002DAJ - Foyer | N | ND | | | |
| 208 | Plaster Wall - Smooth Finish | SF | 1 | Home Eco./003BCJ - Student Dining Area | N | ND | | | |
| 209 | Plaster Wall - Smooth Finish | (R208) | 1 | Home Eco./003BCJ - Student Dining Area | N | ND | | | |
| 210 | Plaster Wall - Smooth Finish | (R208) | 1 | Home Eco./003BCJ - Faculty Dining Area | N | ND | | | |

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# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: SAN PEDRO HS  CODE: 8850  PROJECT: REPLACE 4 A/C UNITS ON FED. BLDG.

SAMPLED BY: ANDY M. GUEVARRA  DEPT.: CARP. AA  TEL. NO.: 310/ 515-3155  DATE SAMPLED: 1/10/01

Fill in all information Legibly and Precisely.  Sampler should make a copy before submitting to the lab.  ***DO NOT USE PENCIL***  (Rev. 4/95) 35

Original to EHSB lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0101-0490 | 8850 - 11 | 20182S | FEDERAL BLDG | (D) ROOF TOP A/C UNIT RETURN AIR | SOUTH / EAST | TAR ON THE BASE PLATES OF VERTICAL AND 2 DUCT SUPPORTS | YES (NO) |
| 0101-0491 | 8850 - 12 | ↓ | ↓ | (B) SUPPLY DUCT | EAST / MIDDLE | ↓ | YES (NO) |
| 0101-0492 | 8850 - 13 | ↓ | ↓ | (A) RETURN AIR | NORTH / EAST | ↓ | YES (NO) |
| | 7 | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | ↓ | | | | | | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT & SIGN: | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 1/11/01 | 11:00 | A.M. GUEVARRA | CARPENTRY / MO-K | (3) of 13 |
| 1/12/01 | 12:20 | W. HOUSTON | Equip MOK | (3) of 13 |
| 1/12/01 | 2:00 PM | E. MORAN | EHSB | 3 |
| | | | | |
| | | | | |

PG. 2 OF 2

District
ety Branch

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 1/12/01


| | | | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| | | /22/01 | Z0182S, FED.BL, ROOF TOP-A/C D / SOUTH/EAST | NON-HOMOGENEOUS, NON-FRIABLE, BLACK, TAR, TARLIKE | 0 | 0 | 0 | 0 | 1% CELLULOSE, 1% FIBROUSGLASS, TAR |
| 0101-0491 | RPC | 1/22/01 | Z0182S, FED.BL,ROOF/SUPPLY / DCT.B EAST/MIDDLE | NON-HOMOGENEOUS, NON-FRIABLE, BLACK, TAR, TARLIKE | 0 | 0 | 0 | 0 | 1% CELLULOSE, 1% FIBROUSGLASS, TAR |
| 0101-0492 | RPC | 1/22/01 | Z0182S, FED.BL,ROOF/RTN.AIR. A / NORTH/EAST | NON-HOMOGENEOUS, NON-FRIABLE, BLACK, TAR, TARLIKE | 0 | 0 | 0 | 0 | 1% CELLULOSE, 1% FIBROUSGLASS, TAR |

ture of Lab Supervisor: G Galoustian Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
This report relates to only the material tested.
This report is not used by the LAUSD/EHSB to claim product endorsement by NVLAP or any agency of the U.S. government.
This report may not be reproduced except in its entirety.

# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: SAN PEDRO HS  CODE: 8850  PROJECT: REPLACE BOILER UNIT

SAMPLED BY: ANDY M. GUEVARRA  DEPT.: CARP. AA  TEL. NO.: 310/515-3155  DATE SAMPLED: 11/29/01

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. DO NOT USE PENCIL (Rev. 4/95)-ST

Original to EHSB lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0112-0015 | SR01 | 001CBJ | INDUSTRIAL ARTS BLDG. | BOILER ROOM (BASEMENT LEVEL) | SOUTH / W. SIDE | SEALING ROPE BTWN. BOILER SECTIONS | YES (NO) |
| 0112-0016 | SR02 | | | | SOUTH / MIDDLE | | YES (NO) |
| 0112-0017 | SR03 | | | | SOUTH / E. SIDE | | YES (NO) |
| 0112-0018 | SP04 | | | | TOP / W. SIDE | SEAL PASTE ON TOP OF BOILER SECTIONS | YES (NO) |
| 0112-0019 | SP05 | | | | TOP / MIDDLE | | YES (NO) |
| 0112-0020 | SP06 | | | | TOP / E. SIDE | | YES (NO) |
| 0112-0021 | ET07 | | | | S / EAST (TEE) | ELBOW / TEE INSULATION | (YES) NO |
| 0112-0022 | ET08 | | | | S / EAST (ELBOW) | | (YES) NO |
| 0112-0023 | ET09 | | | | N / WEST (TEE) | | (YES) NO |
| | 7 | | | | | | YES NO |
| | Z | | | | | | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT & SIGN: | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 11/30/01 | 10:45 | A.M. GUEVARRA / A.M. Guevarra | CARPENTRY / MO-K | 9 |
| 12-03-01 | 10:45 | M [illegible] | 85 H-S | 9 |

Los Angeles Unified School District
Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

ASBESTOS BULK — METHOD EPA/600/R-93/116 (PLM)

LABORATORY REPORT
SAN PEDRO HS
8850

Date Received: 12/3/01


| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 0112-0015 | NLI | 12/4/01 | 001CBJ, INDUS.ARTS.BLDG. / BOIL.RM.BASEMENT LEVEL, S.W.SIDE | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, SEALING ROPE, FIBROUS | 0 | 0 | 0 | 0 | CELLULOSE 1%, FIBERGLASS 90%, BINDER, PIGMENT |
| 0112-0016 | NLI | 12/4/01 | 001CBJ, INDUS.ARTS.BLDG. / BOIL.RM.BASEMENT LEVEL, S.MID. | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, SEALING ROPE, FIBROUS | 80 | 0 | 0 | 80 | BINDER, PIGMENT |
| 0112-0017 | NLI | 12/4/01 | 001CBJ, INDUS.ARTS.BLDG. / BOIL.RM.BASEMENT LEVEL, S.E.SIDE | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, SEALING ROPE, FIBROUS | 80 | 0 | 0 | 80 | BINDER, PIGMENT |
| 0112-0018 | NLI | 12/4/01 | 001CBJ, INDUS.ARTS.BLDG. / BOIL.RM.BASEMENT LEVEL, TOP W.SIDE | NON-HOMOGENEOUS, NON-FRIABLE, GRY, SEAL, SOLID | 0 | 0 | 0 | 0 | BINDER, WOLLASTONITE 50%, PIGMENT |
| 0112-0019 | NLI | 12/4/01 | 001CBJ, INDUS.ARTS.BLDG. / BOIL.RM.BASEMENT LEVEL, TOP/MIDDLE | NON-HOMOGENEOUS, NON-FRIABLE, GRY, SEAL, SOLID | 0 | 0 | 0 | 0 | BINDER, WOLLASTONITE 50%, PIGMENT |
| 0112-0020 | NLI | 12/4/01 | 001CBJ, INDUS.ARTS.BLDG. / BOIL.RM.BASEMENT LEVEL, TOP E.SIDE | NON-HOMOGENEOUS, NON-FRIABLE, GRY, SEAL, SOLID | 0 | 0 | 0 | 0 | BINDER, WOLLASTONITE 50%, PIGMENT |
| 0112-0021 | NLI | 12/4/01 | 001CBJ, INDUS.ARTS.BLDG. / BOIL.RM.BASEMENT LEVEL, S.EAST TEE | NON-HOMOGENEOUS, FRIABLE, GRY, INSULATION, PLIABLE SOLID | 0 | 0 | 0 | 0 | CELLULOSE 1%, FIBERGLASS 1%, GYPSUM, CALCITE |
| 0112-0022 | NLI | 12/4/01 | 001CBJ, INDUS.ARTS.BLDG. / BOIL.RM.BASEMENT LEVEL, S.E.ELBOW | NON-HOMOGENEOUS, FRIABLE, GRY, INSULATION, PLIABLE SOLID | 0 | 0 | 0 | 0 | CELLULOSE 1%, FIBERGLASS 1%, GYPSUM, CALCITE |
| 0112-0023 | NLI | 12/4/01 | 001CBJ, INDUS.ARTS.BLDG. / BOIL.RM.BASEMENT LEVEL, N.W.TEE | NON-HOMOGENEOUS, FRIABLE, GRY, INSULATION, PLIABLE SOLID | 0 | 0 | 0 | 0 | CELLULOSE 1%, FIBERGLASS 1%, GYPSUM, CALCITE |

Signature of Lab Supervisor: E. Calousdian Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
This report relates to only the material tested.
This report is not used by the LAUSD/EHSB to claim product endorsement by NVLAP or any agency of the U.S. government.
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# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT: 0019-SAZ-086 T-BAR

SAMPLED BY: Ahmad Abdollahian DEPT.: GeoTek TEL. NO.: (714)543-4223 DATE SAMPLED: 11/3/02

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. **BLACK INK ONLY** (Rev. 5/01)

Original to OEHS lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0201-0370 | 1 | 004BDJ | Admin Building | 111A | north wall | Sand plaster | YES (NO) |
| 0201-0371 | 2 | | CEILING TILE & | counsler's office | South East | 12"x12" Random ceiling tile Mastic | YES (NO) |
| 0201-0372 | 3 | | MASTIC ARE | NEG | South Middle | | YES (NO) |
| 0201-0373 | 4 | | THE POSITIVE CROSS CONTAMINATION WITH THE CEILING PLASTER | | South west | M-6-5/2/02 | YES (NO) |
| 0201-0374 | 5 | 005BCJ | Classroom Bldg 1 | 2nd floor hallway | west end ceiling | Sand plaster ceiling | YES (NO) |
| 0201-0375 | 6 | | | Girl's R.R. 2nd floor | East ceiling | | YES (NO) |
| 0201-0376 | 7 | | | Boy's R.R. 2nd floor | west ceiling | | YES (NO) |
| 0201-0377 | 8 | | | storage room 2nd floor | north ceiling | | YES (NO) |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT AND SIGN | DEPARTMENT/AREA | NO. OF SAMPLES: |
|---|---|---|---|---|
| 01/04/02 | 2:00 PM | A. Abdollahian | GeoTek | 8 |
| 11/4/02 | 2:00P | Sonia Te Leyla Te | OEHS | 8 |
| | | | | |
| | | | | |
| | | | | |

# APPENDIX A: Analytical Results from Samples
(Continued)

# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT: 0019-SAZ-086 T-BAR

SAMPLED BY: Ahmad Abdollahian DEPT.: GeoTek TEL. NO.: (714)543-4223 DATE SAMPLED: 11/3/02

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. **BLACK INK ONLY** (Rev. 5/01)

Original to OEHS lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0201-0370 | 1 | 004BDJ | Admin Building | 111A | north wall | Sand plaster | YES (NO) |
| 0201-0371 | 2 | | CEILING TILE & | counsler's office | South East | 12"x12" Random ceiling tile Mastic | YES (NO) |
| 0201-0372 | 3 | | MASTIC ARE | NEG | South Middle | | YES (NO) |
| 0201-0373 | 4 | | THE POSITIVE CROSS CONTAMINATION WITH THE CEILING PLASTER | | South west | M-6-5/2/02 | YES (NO) |
| 0201-0374 | 5 | 005BCJ | Classroom Bldg 1 | 2nd floor hallway | west end ceiling | Sand plaster ceiling | YES (NO) |
| 0201-0375 | 6 | | | Girl's R.R. 2nd floor | East ceiling | | YES (NO) |
| 0201-0376 | 7 | | | Boy's R.R. 2nd floor | west ceiling | | YES (NO) |
| 0201-0377 | 8 | | | storage room 2nd floor | north ceiling | | YES (NO) |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT AND SIGN | DEPARTMENT/AREA | NO. OF SAMPLES: |
|---|---|---|---|---|
| 01/04/02 | 2:00 PM | A. Abdollahian | GeoTek | 8 |
| 11/4/02 | 2:00P | Sonia Te Leyla Te | OEHS | 8 |
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Los Angeles Unified School District
Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 1/4/02


| JSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 0201-0370 | NLI | 1/5/02 | 004BDJ, ADMIN.BLDG., 111A / N.WALL | NON-HOMOGENEOUS, NON-FRIABLE, BGE, SAND PLASTER, COATED/CEMENTITIOUS | 0 | 0 | 0 | 0 | CELLULOSE 2%, PAINT, SAND, GYPSUM |
| 0201-0371 | NLI | 1/5/02 | 004BDJ, AD.BLDG., COUNSEL.OFC. / S.E. CEILING TILE & MASTIC WEG | NON-HOMOGENEOUS, NON-FRIABLE, BRN/WHT, CEILING TILE/MASTIC, PLASTER WITH FIBROUS | 3 | 0 | 0 | 3 | CELLULOSE 10%, SIL.GLUE, TALC FIBROUS, QUARTZ, GYPSUM |
| 0201-0372 | NLI | 1/5/02 | 004BDJ, AD.BLDG., COUNSEL.OFC. / S.MID. CROSS CONTAMINATION FROM CEILING PLASTER | NON-HOMOGENEOUS, NON-FRIABLE, BRN/WHT, CEILING TILE/MASTIC, PLASTER WITH FIBROUS MIKE G. IN RM 5/29/08 | 5 | 0 | 0 | 5 | CELLULOSE 10%, SIL.GLUE, TALC FIBROUS, QUARTZ, GYPSUM |
| 0201-0373 | NLI | 1/5/02 | 004BDJ, AD.BLDG., COUNSEL.OFC. / S.W. | NON-HOMOGENEOUS, NON-FRIABLE, BRN/WHT, CEILING TILE/MASTIC, PLASTER WITH FIBROUS | 3 | 0 | 0 | 3 | CELLULOSE 10%, SIL.GLUE, TALC FIBROUS, QUARTZ, GYPSUM |
| 0201-0374 | NLI | 1/5/02 | 005BCJ, CLSS.BLDG.1, FL.2HALL. / W.END CEIL. | NON-HOMOGENEOUS, NON-FRIABLE, VAR, SAND PLASTER, COATED/CEMENTITIOUS | 0 | 0 | 0 | 0 | CELLULOSE 5%, PAINT, SAND, GYPSUM |
| 0201-0375 | NLI | 1/5/02 | 005BCJ, CLSS.BLDG.1, GIRL RR / FL.2, E.CEIL. | NON-HOMOGENEOUS, NON-FRIABLE, VAR, SAND PLASTER, COATED/CEMENTITIOUS | 0 | 0 | 0 | 0 | CELLULOSE 2%, PAINT, SAND, GYPSUM |
| 0201-0376 | NLI | 1/5/02 | 005BCJ, CLSS.BLDG.1, BOY RR / FL.2, W.CEIL. | NON-HOMOGENEOUS, NON-FRIABLE, VAR, SAND PLASTER, COATED/CEMENTITIOUS | 0 | 0 | 0 | 0 | CELLULOSE 1%, PAINT, SAND, GYPSUM |
| 0201-0377 | NLI | 1/5/02 | 005BCJ, CLSS.BLDG.1, STRG.RM. / FL.2, N.CEIL. | NON-HOMOGENEOUS, NON-FRIABLE, VAR, SAND PLASTER, COATED/CEMENTITIOUS | 0 | 0 | 0 | 0 | CELLULOSE 2%, PAINT, SAND, GYPSUM |

Signature of Lab Supervisor: [signature] Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
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# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT: 0019-5A2-086 T-BAR

SAMPLED BY: Ahmad Abdollahian DEPT.: GeoTek TEL. NO.: (714)543-4223 DATE SAMPLED: 1/03/02

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. **BLACK INK ONLY** (Rev. 5/01)

Original to OEHS lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0201-0378 | 9 | 003BCJ | Cafeteria | dining room | northeast wall | Smooth plaster wall | YES (NO) |
| 0201-0379 | 10 | ↓ | ↓ | ↓ | southeast wall | ↓ | YES (NO) |
| 0201-0380 | 11 | 002BAJ | Audiotorium | Auditorium | north wall | 12x12 tile mastic | YES (NO) |
| 0201-0381 | 12 | ↓ | ↓ | ↓ | south west wall | ↓ | YES (NO) |
| 0201-0382 | 13 | ↓ | ↓ | ↓ | south east wall | ↓ | YES (NO) |
| 0201-0383 | 14 | ↓ | ↓ | ↓ | north west wall | Smooth plaster wall | YES (NO) |
| 0201-0384 | 15 | ↓ | ↓ | ↓ | south west wall | ↓ | YES (NO) |
| 0201-0385 | 16 | ↓ | ↓ | ↓ | north east wall | ↓ | YES (NO) |
| 0201-0386 | 17 | ↓ | ↓ | ↓ | south east wall | ↓ | YES (NO) |
| | | | | | | | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT AND SIGN | DEPARTMENT/AREA | NO. OF SAMPLES: |
|---|---|---|---|---|
| 01/04/02 | 2:00 PM | A. Abdollahian | GeoTek | 9 |
| 1/4/02 | 2:00 PM | SERRATO Leyla | 02365 | 9 |
| | | | | |
| | | | | |
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Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 1/4/02


| AUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 0201-0378 | LN | 1/6/02 | 003BCJ, CAFÉ., DINING RM. / N.E.WALL | NON-HOMOGENEOUS, NON-FRIABLE, WHT/BGE, SMOOTH PLASTER, PLASTER | 0 | 0 | 0 | 0 | BINDER, QUARTZ, PAINT |
| 0201-0379 | LN | 1/6/02 | 003BCJ, CAFÉ., DINING RM. / S.E.WALL | NON-HOMOGENEOUS, NON-FRIABLE, WHT/BGE, SMOOTH PLASTER, PLASTER | 0 | 0 | 0 | 0 | BINDER, QUARTZ, PAINT |
| 0201-0380A | LN | 1/6/02 | 002BAJ, AUDT. / N.WALL | NON-HOMOGENEOUS, NON-FRIABLE, TAN, CEILING TILE, FIBROUS | 0 | 0 | 0 | 0 | CELLULOSE 90%, PAINT |
| 0201-0380B | LN | 1/6/02 | 002BAJ, AUDT. / N.WALL | HOMOGENEOUS, NON-FRIABLE, BRN, CEILING TILE/MASTIC, SOLID | 0 | 0 | 0 | 0 | ADHESIVE |
| 0201-0381A | LN | 1/6/02 | 002BAJ, AUDT. / S.W.WALL | NON-HOMOGENEOUS, NON-FRIABLE, TAN, CEILING TILE, FIBROUS | 0 | 0 | 0 | 0 | CELLULOSE 90%, PAINT |
| 0201-0381B | LN | 1/6/02 | 002BAJ, AUDT. / S.W.WALL | HOMOGENEOUS, NON-FRIABLE, BRN, CEILING TILE/MASTIC, SOLID | 0 | 0 | 0 | 0 | ADHESIVE |
| 0201-0382A | LN | 1/6/02 | 002BAJ, AUDT. / S.E.WALL | NON-HOMOGENEOUS, NON-FRIABLE, TAN, CEILING TILE, FIBROUS | 0 | 0 | 0 | 0 | CELLULOSE 90%, PAINT |
| 0201-0382B | LN | 1/6/02 | 002BAJ, AUDT. / S.E.WALL | HOMOGENEOUS, NON-FRIABLE, BRN, CEILING TILE/MASTIC, SOLID | 0 | 0 | 0 | 0 | ADHESIVE |
| 0201-0383 | LN | 1/6/02 | 002BAJ, AUDT. / N.W.WALL | NON-HOMOGENEOUS, NON-FRIABLE, WHT, SMOOTH PLASTER, PLASTER | 0 | 0 | 0 | 0 | BINDER, QUARTZ, PAINT |
| 0201-0384 | LN | 1/6/02 | 002BAJ, AUDT. / S.W.WALL | NON-HOMOGENEOUS, NON-FRIABLE, WHT, SMOOTH PLASTER, PLASTER | 0 | 0 | 0 | 0 | BINDER, QUARTZ, PAINT |
| 0201-0385 | LN | 1/6/02 | 002BAJ, AUDT. / N.E.WALL | NON-HOMOGENEOUS, NON-FRIABLE, WHT, SMOOTH PLASTER, PLASTER | 0 | 0 | 0 | 0 | BINDER, QUARTZ, PAINT |

Signature of Lab Supervisor: _____ Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
This report relates to only the material tested.
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Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 1/4/02


| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 0201-0386 | LN | 1/6/02 | 002BAJ, AUDT. / S.E.WALL | NON-HOMOGENEOUS, NON-FRIABLE, WHT, SMOOTH PLASTER, PLASTER | 0 | 0 | 0 | 0 | BINDER, QUARTZ, PAINT |

Signature of Lab Supervisor: _____ Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
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AA 01102

# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: ~~ESMERALDA ELEM.~~ SAN PEDRO SR. CODE: 8640 (850) PROJECT: 0019SA2-082 T-BAR

SAMPLED BY: AHMAD ABDOLLAHIAN DEPT.: GeoTek TEL. NO.: (714) 543-4223 DATE SAMPLED: 01/9/02

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. BLACK INK ONLY (Rev. 5/01)

Original to OEHS lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0201-0387 | 18 | 0015 DCS SP 1/8/02 | Arts Building | 165 | West wall | Sand plaster wall | YES (NO) |
| 0201-0388 | 19 | ↓ SP 1/8/02 | ↓ | 165 | South wall | ↓ | YES (NO) |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT AND SIGN | DEPARTMENT/AREA | NO. OF SAMPLES: |
|---|---|---|---|---|
| 01/04/02 | 2:00 PM | Ahmad Abdollahian/Ahmad Sayar To/To | GeoTek | 2 |
| 1/4/02 | 2:00P | | 02545 | 2 |
| | | | | |
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Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 1/4/02


| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 0201-0387 | LN | 1/6/02 | 0015DCS, ART.BLDG., 165 / W.WALL | NON-HOMOGENEOUS, NON-FRIABLE, OF WHT, SAND PLASTER, PLASTER | 0 | 0 | 0 | 0 | BINDER, QUARTZ, PAINT |
| 0201-0388 | LN | 1/6/02 | 0015DCS, ART.BLDG., 165 / S.WALL | NON-HOMOGENEOUS, NON-FRIABLE, OF WHT, SAND PLASTER, PLASTER | 0 | 0 | 0 | 0 | BINDER, QUARTZ, PAINT |

Signature of Lab Supervisor: E Gabourian Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
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# ASBESTOS BULK SAMPLE SUBMITTAL

Submit by ACC Environmental Phone: (310) 312-9642 - fax: (510) 638-8404

SITE NAME: San Pedro SH CODE: 8850 PROJECT: HVAC

SAMPLED BY: NE/NOEL R. ESCOBAR DEPT.: ACC TEL. NO.: (213)632-0414 DATE SAMPLED: 1/24/02

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. BLACK INK ONLY (Rev. 5/01)

Original to OEHS lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0201-1978 | 1 | 004BOJ | Admin. & Classroom Bldg. | Hallway (2nd floor) | Center | Sand plaster walls | YES NO |
| 0201-1979 | 2 | | | Exterior | North East | Exterior Stucco | YES NO |
| 0201-1980 | 3 | | | | East | | YES NO |
| 0201-1981 | 4 | | | | South | | YES NO |
| 0201-1982 | 5 | | | | South East | | YES NO |
| 0201-1983 | 6 | | | | West | | YES NO |
| 0201-1984 | 7 | | | | North West | | YES NO |
| 0201-1985 | 8 | 002BAJ | Auditorium | Auditorium | North | Glue associated w/ 12"x12" straight ceiling tiles | YES NO |
| 0201-1986 | 9 | | | | East (ON WINDOW) | | YES NO |
| 0201-1987 | 10 | | | | South | | YES NO |

CUSTODY:

| DATE: | TIME: | NAME: PRINT AND SIGN | DEPARTMENT/AREA | NO. OF SAMPLES: |
|---|---|---|---|---|
| 1/25/02 | 9AM | Noel Escobar | ACC | 10 |
| 1/25/02 | ~~1300~~ | Yme Tye for Noel Escobar | ACC | |
| 1/25/02 | 1301 | Leyla Te ET | ORTS | 10 |
| | | | | |
| | | | | |

Los Angeles Unified School District
Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
13) 742-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 1/25/02


| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 0201-1978 | NLI | 1/29/02 | 004B0J, ADM/CLSRM, HLLWY/2 FLR / CENTER | NON-HOMOGENEOUS, NON-FRIABLE, VARIOUS, PLASTER WALL, GRANULAR/CEMENTITIOUS | 0 | 0 | 0 | 0 | 2% CELLULOSE, PAINT, SAND, GYPSUM |
| 0201-1979 | NLI LN | 1/29/02 | 004B0J, ADM/CLSRM, EXTERIOR / NORTH/EAST | NON-HOMOGENEOUS, NON-FRIABLE, YELLOW/GRAY, STUCCO, COATED/CEMENTITIOUS | 0 | 0 | 0 | 0 | 1% CELLULOSE, PAINT, SAND, GYPSUM |
| 0201-1980 | NLI | 1/29/02 | 004B0J, ADM/CLSRM, EXTERIOR / EAST | NON-HOMOGENEOUS, NON-FRIABLE, YELLOW/GRAY, STUCCO, COATED/CEMENTITIOUS | <1 | 0 | 0 | <1 | PAINT, SAND, GYPSUM |
| 0201-1981 | NLI | 1/29/02 | 004B0J, ADM/CLSRM, EXTERIOR / SOUTH | NON-HOMOGENEOUS, NON-FRIABLE, YELLOW/GRAY, STUCCO, COATED/CEMENTITIOUS | 1 | 0 | 0 | 1 | PAINT, SAND, GYPSUM |
| 0201-1982 | NLI | 1/29/02 | 004B0J, ADM/CLSRM, EXTERIOR / SOUTH/EAST | NON-HOMOGENEOUS, NON-FRIABLE, YELLOW/GRAY, STUCCO, COATED/CEMENTITIOUS | 2 | 0 | 0 | 2 | PAINT, SAND, GYPSUM |
| 0201-1983 | NLI | 1/29/02 | 004B0J, ADM/CLSRM, EXTERIOR / WEST | NON-HOMOGENEOUS, NON-FRIABLE, YELLOW/GRAY, STUCCO, COATED/CEMENTITIOUS | 2 | 0 | 0 | 2 | PAINT, SAND, GYPSUM |
| 0201-1984 | NLI | 1/29/02 | 004B0J, ADM/CLSRM, EXTERIOR / NORTH/WEST | NON-HOMOGENEOUS, NON-FRIABLE, YELLOW/GRAY, STUCCO, COATED/CEMENTITIOUS | 1 | 0 | 0 | 1 | PAINT, SAND, GYPSUM |
| 0201-1985 | NLI | 1/29/02 | 002BAJ, AUDITORIUM / NORTH | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, CEILING TILE, GLUE, SOLID/FIBROUS | 0 | 0 | 0 | 0 | 20% CELLULOSE, SIL.GLUE, BINDER |
| 0201-1986 | NLI | 1/29/02 | 002BAJ, AUDITORIUM / EAST | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, CEILING TILE, GLUE, SOLID/FIBROUS | 0 | 0 | 0 | 0 | 20% CELLULOSE, SIL.GLUE, BINDER |
| 0201-1987 | NLI | 1/29/02 | 002BAJ, AUDITORIUM / SOUTH | NON-HOMOGENEOUS, NON-FRIABLE, BROWN, CEILING TILE, GLUE, SOLID/FIBROUS | 0 | 0 | 0 | 0 | 20% CELLULOSE, SIL.GLUE, BINDER |

Signature of Lab Supervisor: _____ Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
This report relates to only the material tested.
This report is not used by the LAUSD/EHSB to claim product endorsement by NVLAP or any agency of the U.S. government.

Hygeia Laboratories Inc.

82 W. Sierra Madre Blvd
Sierra Madre, CA 91024-2434
(626) 355-4711 (626) 355-4497 Fax

NIST / NVLAP Lab Code No. 102116-0
California ELAP Certificate No. 1269
New York ELAP Certificate No. 11017

# Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116 Point Count - 1000 Points

March 14, 2002

Ms. Greta Galoustian
LA Unified School District
1449 S. San Pedro
Los Angeles, CA 90015

*0201-1980-1984 San Pedro S.H.*

Samples Analyzed: 5
Sampler: N. Escobar

Hygeia Reference No.: 71089 02 0091
DateCollected: January 24, 2002
Date Received: February 1, 2002
Date Analyzed: March 13, 2002

| Client Sample ID / Hygeia Sample ID | Sample Description / *Comments* | Detection Limit | Gravimetric Reduction | Analytical Results |
|---|---|---|---|---|
| **0201-1980** 722834p | Exterior stucco | 0.06% | 20% organic<br>19% acid soluble | <0.1%<br>chrysotile |
| **0201-1981** 722835p | Exterior stucco | 0.06% | 16% organic<br>27% acid soluble | <0.1%<br>chrysotile |
| **0201-1982** 722836p | Exterior stucco | 0.05% | 24% organic<br>31% acid soluble | 0.18%<br>chrysotile |
| **0201-1983** 722837p | Exterior stucco | 0.06% | 9% organic<br>32% acid soluble | <0.1%<br>chrysotile |
| **0201-1984** 722838p | Exterior stucco | 0.05% | 20% organic<br>27% acid soluble | <0.1%<br>chrysotile |

Microscopist - Guillermo Hernandez

The analyses of the samples in this report were performed using gravimetric matrix reduction and polarized light microscopy (PLM) in accordance with the EPA method 600/R-93/116 July 1993. The asbestos concentration was determined using the semi-quantitative point count method. On a per sample basis, the accuracy and precision of point count results are not known. The result should lie within the statistical limits of variability calculated for standard reference samples routinely analyzed in the laboratory using the point count method. The limit of detection for this analytical method is 0.25 percent using 400 points and 0.10 percent using 10 points (visual area estimates).

Hygeia recommends trasmission electron microscopy (TEM) analysis on organically bound bulk materials (eg., vinyl floor tile, mastics, roofing materials, joint compounds) when PLM analysis shows undetectable quantities of asbestos. These materials often contain milled asbestos with fiber diameters and lengths too sma to be resolved by the PLM and the analysis may yield a false negative result.

Hygeia Laboratories Inc. is accredited under the NIST/NVLAP program for asbestos in bulk material by polarized light microscopy and the State of California for asbestos analysis.

Hygeia Laboratories Inc. and its personnel shall not be liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretation of information supplied by us. Liabilitiy shall extend to providing replicate analyses only. This report must not be used to claim product endorsement NVLAP or any agency of the US Government. Hygeia will retain samples for a period of three months unless otherwise specified. This report relates only to sampl submitted and analyzed. This report may not be reproduced except for in full, without the written approval of this laboratory.

Please feel free to contact Hygiea regarding any questions about these results, this report, or the analytical methods employed.

Arturo Casas - Supervisor of Optical Microscopy

Gustavo A. Delgado, Ph.D. - Director

Hygeia Laboratories Inc.
82 W. Sierra Madre Blvd
Sierra Madre, CA 91024-2434
(626) 355-4711 (626) 355-4497 Fax

NIST/NVLAP Lab Code 102116-0
California ELAP Certificate No. 1269
New York ELAP Certificate No. 11017

# Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

March 14, 2002

Ms. Greta Galoustian
LA Unified School District
1449 S. San Pedro
Los Angeles, CA 90015

0201-1980-1984 San Pedro S.H.

Samples Analyzed: 5
Sampler: N. Escobar

Hygeia Reference No.: 71089 02 0091
Date Collected: January 24, 2002
Date Received: February 1, 2002
Date Analyzed: March 9, 2002

| Client Sample ID / Hygeia Sample ID | Sample Description - color / Comments | Asbestos Type, % | | | | | | | Non-Asbestos Constituents, % | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Asbestos Detected | Chrysotile | Amosite | Crocidolite | Tremolite | Anthophyllite | Actinolite | Cellulose | Fiberglass | Synthetic | Mineral Fillers | Vermiculite | Organic Binders | Paint | | QC |
| 0201-1980 / 722834 | Exterior stucco - tan/gray | Yes | < 1 | | | | | | | | | 95 | | | 5 | | |
| 0201-1981 / 722835 | Exterior stucco - tan/gray | Yes | < 1 | | | | | | | | | 95 | | | 5 | | |
| 0201-1982 / 722836 | Exterior stucco - tan/gray | Yes | < 1 | | | | | | | | | 95 | | | 5 | | |
| 0201-1983 / 722837 | Exterior stucco - tan/gray | Yes | < 1 | | | | | | | | | 95 | | | 5 | | |
| 0201-1984 / 722838 | Exterior stucco - tan/gray | Yes | < 1 | | | | | | | | | 95 | | | 5 | | |

Microscopist - Guillermo Hernandez

The analyses of the samples in this report were performed using polarized light microscopy using the EPA method 600/R-93/116. The phase abundances provided are visually estimated and expressed as percent area. Total percentage of sample constituents may total greater than 100 due to trace amounts. The limit of detec for this analytical method is less than one percent. In multilayer samples, unless otherwise specified, the asbestos concentration is reported for the layer where asbestos is found. These results lie within the statistical limits of variability calculated for standard reference samples routinely analyzed in the laboratory. On a pe sample basis, the accuracy and precision of the results depend on the type of sample and its asbestos content.

Hygeia recommends trasmission electron microscopy (TEM) analysis on organically bound bulk materials (eg., vinyl floor tile, mastics, roofing materials, joint compounds) when PLM analysis shows undetectable quantities of asbestos. These materials often contain milled asbestos with fiber diameters and lengths too sma to be resolved by the PLM and the analysis may yield a false negative result.

Hygeia Laboratories Inc. is accredited under the NIST/NVLAP program for asbestos in bulk material by polarized light microscopy and the State of California for asbestos analysis.

Hygeia Laboratories Inc. and its personnel shall not be liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretation of information supplied by us. Liability shall extend to providing replicate analyses only. This report must not be used to claim product endorsement l NVLAP or any agency of the US Government. Hygeia will retain samples for a period of three months unless otherwise specified. This report relates only to sampl submitted and analyzed. This report may not be reproduced except for in full, without the written approval of this laboratory. Please feel free to contact Hygeia regarding any questions about these results, this report, or the analytical methods employed.

Arturo Casas - Supervisor of Optical Microscopy

Gustavo A. Delgado, Ph.D. - Director

# ASBESTOS BULK SAMPLE SUBMITTAL

Submitted by ACC Environmental Phone: (310) 312-9642 - fax: (510) 638-8404

SITE NAME: San Pedro SH CODE: 8850 PROJECT: HVAC

SAMPLED BY: NE/NOEL R. ESCOBAR DEPT.: ACC TEL. NO.: (213) 632-0414 DATE SAMPLED: 1/24/02

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. BLACK INK ONLY (Rev. 5/01)

Original to OEHS lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0201-2000 | 11 | 002BAJ | Auditorium | Auditorium | North | SF glue ariocated w/ 1'x2' Straight | YES (NO) |
| 0201-2001 | 12 | " | " | " | East ON wall | ceiling tile | YES (NO) |
| 0201-2002 | 13 | " | " | " | South | " | YES (NO) |
| 0201-2003 | 14 | 001CBJ | Industrial Arts | ROOM 160 | North | Sand plaster ceiling | (YES) NO |
| 0201-2004 | 15 | " | " | " | North East | " | (YES) NO |
| 0201-2005 | 16 | " | " | " | East | " | (YES) NO |
| 0201-2006 | 17 | " | " | " | West | " | (YES) NO |
| 0201-2007 | 18 | " | " | " | South | " | (YES) NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT AND SIGN | DEPARTMENT/AREA | NO. OF SAMPLES: |
|---|---|---|---|---|
| 1/25/02 | 9AM | Noel Escobar | ACC | 8 |
| 1/25/02 | 1300 | Given to for Noel Escobar | ACC | ← SINGLED FOR NOEL |
| 1/25/02 | 1302 | Given to ET | OEHS | 3 |
| | | | | |
| | | | | |

Los Angeles Unified School District
Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
'3) 742-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 1/25/02


| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 0201-2000 | MS | 1/29/02 | 002BAJ, AUDITORIUM / NORTH | HOMOGENEOUS, NON-FRIABLE, BROWN, CEILING TILE ADHESIVE, RESIN-LIKE | 0 | 0 | 0 | 0 | <1% CELLULOSE, GLUE |
| 0201-2001 | MS | 1/29/02 | 002BAJ, AUDITORIUM / EAST | HOMOGENEOUS, NON-FRIABLE, BROWN, CEILING TILE ADHESIVE, RESIN-LIKE | 0 | 0 | 0 | 0 | <1% CELLULOSE, GLUE |
| 0201-2002 | MS | 1/29/02 | 002BAJ, AUDITORIUM / SOUTH | HOMOGENEOUS, NON-FRIABLE, BROWN, CEILING TILE ADHESIVE, RESIN-LIKE | 0 | 0 | 0 | 0 | <1% CELLULOSE, GLUE |
| 0201-2003 | MS | 1/29/02 | 001CBJ, IND. ART, RM. 160 / NORTH | NON-HOMOGENEOUS, FRIABLE, BEIGE, SAND PLASTER, GRANULAR | 0 | 0 | 0 | 0 | <1% CELLULOSE, QUARTZ, PAINT |
| 0201-2004 | MS | 1/29/02 | 001CBJ, IND. ART, RM. 160 / NORTH/EAST | HOMOGENEOUS, FRIABLE, BEIGE, SAND PLASTER, GRANULAR | 0 | 0 | 0 | 0 | <1% CELLULOSE, QUARTZ |
| 1-2005 | MS | 1/29/02 | 001CBJ, IND. ART, RM. 160 / EAST | HOMOGENEOUS, FRIABLE, BEIGE, SAND PLASTER, GRANULAR | 0 | 0 | 0 | 0 | <1% CELLULOSE, QUARTZ |
| 0201-2006 | MS | 1/29/02 | 001CBJ, IND. ART, RM. 160 / WEST | HOMOGENEOUS, FRIABLE, BEIGE, SAND PLASTER, GRANULAR | 0 | 0 | 0 | 0 | <1% CELLULOSE, QUARTZ |
| 0201-2007 | MS | 1/29/02 | 001CBJ, IND. ART, RM. 160 / SOUTH | HOMOGENEOUS, FRIABLE, BEIGE, SAND PLASTER, GRANULAR | 0 | 0 | 0 | 0 | <1% CELLULOSE, QUARTZ |

Signature of Lab Supervisor: _____ Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
This report relates to only the material tested.
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This report may not be reproduced except in its entirety.

# ASBESTOS BULK SAMPLE SUBMITTAL

Submit... by ACC Environmental Phone: (310) 312-9642 - fax: (510) 638-8404

SITE NAME: San Pedro SH CODE: 8850 PROJECT: HVAC

SAMPLED BY: NE/NOEL R. ESCOBAR DEPT.: ACC TEL. NO.: (213)632-0414 DATE SAMPLED: 1/24/02

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. BLACK INK ONLY (Rev. 5/01)

Original to OEHS lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0201-1997 | 28 | 006CBJ | P.E. Bldg | Basketball court | North end HVAC vents | HVAC Vent tape | YES (NO) |
| 0201-1998 | 29 | 006CBJ | ↓ | ↓ | ↓ | ↓ | YES (NO) |
| 0201-1999 | 30 | 006CBJ | ↓ | ↓ | ↓ | ↓ | YES (NO) |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT AND SIGN | DEPARTMENT/AREA | NO. OF SAMPLES: |
|---|---|---|---|---|
| 1/28/02 | 9AM | Noel Escobar | ACC | 3 |
| 1/25/02 | 1300 | Noel Escobar for Noel Escobar | ACC | 2 |
| 1/25/02 | 1300 | [illegible] | 0285 | 3 |
| | | | | |
| | | | | |

Los Angeles Unified School District
Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 1/25/02


| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 0201-1997 | MS | 1/29/01 | 006CBJ, PE BLD/BASKTBALL CRT / NORTH END HVAC VENTS | NON-HOMOGENEOUS, NON-FRIABLE, OFF WHITE, DUCT MATERIAL, FIBROUS/ADHESIVE | 0 | 0 | 0 | 0 | 70% CELLULOSE, GLUE, PAINT |
| 0201-1998 | MS | 1/29/01 | 006CBJ, PE BLD/BASKTBALL CRT / NORTH END HVAC VENTS | NON-HOMOGENEOUS, NON-FRIABLE, OFF WHITE, DUCT MATERIAL, FIBROUS/ADHESIVE | 0 | 0 | 0 | 0 | 70% CELLULOSE, GLUE, PAINT |
| 0201-1999 | MS | 1/29/01 | 006CBJ, PE BLD/BASKTBALL CRT / NORTH END HVAC VENTS | NON-HOMOGENEOUS, NON-FRIABLE, OFF WHITE, DUCT MATERIAL, FIBROUS/ADHESIVE | 0 | 0 | 0 | 0 | 70% CELLULOSE, GLUE, PAINT |

Signature of Lab Supervisor: G Galoustian Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
This report relates to only the material tested.
This report is not used by the LAUSD/EHSB to claim product endorsement by NVLAP or any agency of the U.S. government.
This report may not be reproduced except in its entirety.

# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: SAN PEDRO SR. HIGH  CODE: 8850  PROJECT: AHERA

SAMPLED BY: JESUS C. CARBAJAL  DEPT.: ATU  TEL. NO (213)763-1450  DATE SAMPLED: 03-06-02

Fill in all information Legibly and Precisely.  Sampler should make a copy before submitting to the lab.  DO NOT USE PENCIL  (Rev. 4/95)

Original to EHSB lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0203-1024 | 01 | 010DAP | GYRLS GYM (SC) | GIRLS RESTROOM'S LOUNGE | N-E | 9"x9" TAN FLOOR TILE | YES (NO) |
| 0203-1025 | 02 | ↓ | ↓ | ↓ | S-E | ↓ | YES (NO) |
| 0203-1026 | 03 | ↓ | ↓ | ↓ | N-W | ↓ | YES (NO) |
| 0203-1027 | 04 | ↓ | ↓ | FOYER | N-E | 9"x9" BROWN FLOOR TILE | YES (NO) |
| 0203-1028 | 05 | ↓ | ↓ | FOYER | CENTER | ↓ | YES (NO) |
| 0203-1029 | 06 | ↓ | ↓ | EQUIP. STORAGE ROOM | N-E | ↓ | YES (NO) |
| | | | | | | | YES NO |
| 0203-1030 | 07 | J0163M | SANITARY RELOCATABLE | ATLETIC DIRECTOR'S OFFICE | N-W | BROWN FLOOR SHEETING | YES (NO) |
| 0203-1031 | 08 | ↓ | ↓ | ↓ | N-E | ↓ | YES (NO) |
| 0203-1032 | 09 | ↓ | ↓ | ↓ | S-W | ↓ | YES (NO) |
| | | | | | | | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT & SIGN: | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 3-06-02 | 2:30 PM | JESUS C. CARBAJAL | A.T.U. 19 | (9) |
| 3-11-02 | 2:40 PM | E. Z. MOLANO | OEHS | 9 |
| | | | | |
| | | | | |
| | | | | |

Los Angeles Unified School District
Environmental Health and Safety Branch
1449 S. San Pedro St.
Angeles, CA 90015
3) 742-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 3/11/02


| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 0203-1024A | MS | 3/13/02 | 010DAP, GIRLS GYM, GIRL'S R/R / NORTH/EAST | HOMOGENEOUS, NON-FRIABLE, TAN, FLOOR TILE, VINYL-LIKE | 3 | 0 | 0 | 3 | CELLULOSE <1%, VINYL, BINDER |
| 0203-1024B | MS | 3/13/02 | 010DAP, GIRLS GYM, GIRL'S R/R / NORTH/EAST | HOMOGENEOUS, NON-FRIABLE, BLACK, FLOOR TILE, MASTIC, RESIN-LIKE | 4 | 0 | 0 | 4 | CELLULOSE <1%, MASTIC |
| 0203-1025A | MS | 3/13/02 | 010DAP, GIRLS GYM, GIRL'S R/R / SOUTH/EAST | HOMOGENEOUS, NON-FRIABLE, TAN, FLOOR TILE, VINYL-LIKE | 3 | 0 | 0 | 3 | CELLULOSE <1%, VINYL, BINDER |
| 0203-1025B | MS | 3/13/02 | 010DAP, GIRLS GYM, GIRL'S R/R / SOUTH/EAST | HOMOGENEOUS, NON-FRIABLE, BLACK, FLOOR TILE, MASTIC, RESIN-LIKE | 5 | 0 | 0 | 5 | CELLULOSE <1%, MASTIC |
| 0203-1026A | MS | 3/13/02 | 010DAP, GIRLS GYM, GIRL'S R/R / NORTH/WEST | HOMOGENEOUS, NON-FRIABLE, TAN, FLOOR TILE, VINYL-LIKE | 3 | 0 | 0 | 3 | CELLULOSE <1%, VINYL, BINDER |
| 0203-1026B | MS | 3/13/02 | 010DAP, GIRLS GYM, GIRL'S R/R / NORTH/WEST | HOMOGENEOUS, NON-FRIABLE, BLACK, FLOOR TILE, MASTIC, RESIN-LIKE | 4 | 0 | 0 | 4 | CELLULOSE <1%, MASTIC |
| 0203-1027A | MS | 3/13/02 | 010DAP, GIRLS GYM, FOYER / NORTH/EAST | HOMOGENEOUS, NON-FRIABLE, BROWN, FLOOR TILE, VINYL-LIKE | 2 | 0 | 0 | 2 | CELLULOSE <1%, VINYL, BINDER |
| 0203-1027B | MS | 3/13/02 | 010DAP, GIRLS GYM, FOYER / NORTH/EAST | HOMOGENEOUS, NON-FRIABLE, BLACK, FLOOR TILE, MASTIC, RESIN-LIKE | 6 | 0 | 0 | 6 | CELLULOSE <1%, MASTIC |
| 0203-1028A | MS | 3/13/02 | 010DAP, GIRLS GYM, FOYER / CENTER | HOMOGENEOUS, NON-FRIABLE, BROWN, FLOOR TILE, VINYL-LIKE | 2 | 0 | 0 | 2 | CELLULOSE <1%, VINYL, BINDER |
| 0203-1028B | MS | 3/13/02 | 010DAP, GIRLS GYM, FOYER / CENTER | HOMOGENEOUS, NON-FRIABLE, BLACK, FLOOR TILE, MASTIC, RESIN-LIKE | 6 | 0 | 0 | 6 | CELLULOSE <1%, MASTIC |
| 0203-1029A | MS | 3/13/02 | 010DAP, GIRLS GYM, EQP STRG RM / NORTH/EAST | HOMOGENEOUS, NON-FRIABLE, BROWN, FLOOR TILE, VINYL-LIKE | 2 | 0 | 0 | 2 | CELLULOSE <1%, VINYL, BINDER |

Signature of Lab Supervisor: _____ Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
This report relates to only the material tested.
...product endorsement by NVLAP or any agency of the U.S. government.

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ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 3/11/02


| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 0203-1029B | MS | 3/13/02 | 010DAP, GIRLS GYM, EQP STRG RM / NORTH/EAST | HOMOGENEOUS, NON-FRIABLE, BLACK, FLOOR TILE, MASTIC, RESIN-LIKE | 6 | 0 | 0 | 6 | CELLULOSE <1%, MASTIC |
| 0203-1030A | MS | 3/13/02 | J0163M, SANITARY RELOC, ATH DI / NORTH/WEST | HOMOGENEOUS, NON-FRIABLE, BROWN, FLOOR SHEETING, VINYL-LIKE | 0 | 0 | 0 | 0 | CELLULOSE <1%, VINYL, BINDER |
| 0203-1030B | MS | 3/13/02 | J0163M, SANITARY RELOC, ATH DI / NORTH/WEST | NON-HOMOGENEOUS, NON-FRIABLE, BLACK, FLOOR SHEETING/ADHESIVE, FIBROUS/ADHESIVE | 3 | 0 | 0 | 3 | CELLULOSE 60%, MASTIC |
| 0203-1031A | MS | 3/13/02 | J0163M, SANITARY RELOC, ATH DI / NORTH/EAST | HOMOGENEOUS, NON-FRIABLE, BROWN, FLOOR SHEETING, VINYL-LIKE | 0 | 0 | 0 | 0 | CELLULOSE <1%, VINYL, BINDER |
| 0203-1031B | MS | 3/13/02 | J0163M, SANITARY RELOC, ATH DI / NORTH/EAST | NON-HOMOGENEOUS, NON-FRIABLE, BLACK, FLOOR SHEETING/ADHESIVE, FIBROUS/ADHESIVE | 3 | 0 | 0 | 3 | CELLULOSE 60%, MASTIC |
| 0203-1032A | MS | 3/13/02 | J0163M, SANITARY RELOC, ATH DI / SOUTH/WEST | HOMOGENEOUS, NON-FRIABLE, BROWN, FLOOR SHEETING, VINYL-LIKE | 0 | 0 | 0 | 0 | CELLULOSE <1%, VINYL, BINDER |
| 0203-1032B | MS | 3/13/02 | J0163M, SANITARY RELOC, ATH DI / SOUTH/WEST | NON-HOMOGENEOUS, NON-FRIABLE, BLACK, FLOOR SHEETING/ADHESIVE, FIBROUS/ADHESIVE | 3 | 0 | 0 | 3 | CELLULOSE 60%, MASTIC |

Signature of Lab Supervisor: _____ Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
This report relates to only the material tested.
[illegible] to claim product endorsement by NVLAP or any agency of the U.S. government.

San Pedro HS GG 4/1/02 AS Or Eric Fleming

# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: ~~Point Fermin School~~ CODE: 8850 PROJECT: Boiler unit replacement. 33.04962.

SAMPLED BY: Victor Sanchez DEPT.: CTL TEL. NO.: (310)530 5006 DATE SAMPLED: 3/27/02.

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. BLACK INK ONLY (Rev. 5/01)

Original to OEHS lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0203-2720 | 2999 | 001CBJ | INDUSTRIAL ARTS BLDG | Boiler | N/E PIPE END. | GASKET | YES (NO) |
| 0203-2721 | 3000 | 001CBJ | Industrial ARTS | BOILER | S/E PIPE END | Gasket | YES (NO) |
| 0203-2722 | 3001 | 001CBJ | INDUSTRIAL ARTS | BOILER. | S/W PIPE END. | GASKET. | YES (NO) |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT AND SIGN | DEPARTMENT/AREA | NO. OF SAMPLES: |
|---|---|---|---|---|
| 3/29/02 | 0850 | Victor Sanchez | CTL | 3 |
| 3/29/02 | 0850 am | Mohd Suldi | OEHS | 3 |
| | | | | |
| | | | | |
| | | | | |

Los Angeles Unified School District
Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 3/29/02


| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 0203-2720 | MS | 4/1/02 | 001CBJ, IND. ART, BOILER / NORTH/EAST PIPE END | HOMOGENEOUS, NON-FRIABLE, BLACK, GASKET, FIBROUS | 60 | 0 | 0 | 60 | 1% CELLULOSE, BINDER |
| 0203-2721 | MS | 4/1/02 | 001CBJ, IND. ART, BOILER / SOUTH/EAST PIPE END | HOMOGENEOUS, NON-FRIABLE, BLACK, GASKET, FIBROUS | 60 | 0 | 0 | 60 | 1% CELLULOSE, BINDER |
| 0203-2722 | MS | 4/1/02 | 001CBJ, IND. ART, BOILER / SOUTH/WEST PIPE END | HOMOGENEOUS, NON-FRIABLE, BLACK, GASKET, FIBROUS | 60 | 0 | 0 | 60 | 1% CELLULOSE, BINDER |

Signature of Lab Supervisor: _____ Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
This report relates to only the material tested.
This report is not used by the LAUSD/EHSB to claim product endorsement by NVLAP or any agency of the U.S. government.
This report may not be reproduced except in its entirety.

12153

# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: SAN PEDRO HIGH SCHOOL  CODE: 8850  PROJECT: REPLACE DEX-O-TEX FED. BLDG

SAMPLED BY: ADRIAN LASTIMOSA  DEPT.: PAINT  TEL. NO.: (310) 515-3115  DATE SAMPLED: 3-12-03

(Rev. 4/95)

DO NOT USE PENCIL

Fill in all information Legibly and Precisely.  Sampler should make a copy before submitting to the lab.

Original to EHSB lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0303-2468 | 1 | Z01825 | FEDERAL BLDG | B-5 & B-6 FED BLDG | EXTERIOR UPSTAIRS SOUTH WEST FLOOR | DEX-O-TEX GRAY DECK COATING | YES (NO) |
| 0303-2469 | 2 | * | * | * | EXTERIOR UPSTAIRS SOUTHWEST FLOOR | * | YES (NO) |
| 0303-2470 | 3 | | | | EXTERIOR UPSTAIRS NORTHWEST FLOOR | * | YES (NO) |
| 0303-2471 | 4 | | | | EXTERIOR UPSTAIRS MIDDLE WALL | BROWN STUCCO | YES (NO) |
| 0303-2472 | 5 | | | | EXTERIOR UPSTAIRS NORTHWEST WALL | * | YES (NO) |
| 0303-2473 | 6 | | | | EXTERIOR UPSTAIRS SOUTHWEST WALL | * | YES (NO) |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT & SIGN: | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 3/12/03 | 1:45 pm | ADRIAN LASTIMOSA / Adrian Lastimosa | PAINT / K | 6 |
| 3-12-03 | 1:45 PM | W. SHANNON / WS | EQUIP / K | 6 |
| 3/14/03 | 1:45 pm | M. NEKA / K | EQUIP K | 6 |
| 3/14/03 | 1:45 P | SERVICE 16 | EQUIP K | 6 |
| | | | | |

Los Angeles Unified School District
Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

ASBESTOS BULK SAMPLE ANALYSIS
LABORATORY REPORT
SAN PEDRO HS
8850

NVLAP #1565
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 3/14/03


| SD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 0303-2468 | EZM | 3/19/03 | Z0182S, FEDERAL BL, B5/B6/FED / SW FLR EXT UP STAIRS | HOMOGENEOUS, NON-FRIABLE, BROWN, DEXOTEX, FIBROUS | 75 | 0 | 0 | 75 | BINDER |
| 0303-2469 | EZM | 3/19/03 | Z0182S, FEDERAL BL, B5/B6/FED / SW FLR EXT UP STAIRS | HOMOGENEOUS, NON-FRIABLE, BROWN, DEXOTEX, FLAT SOLID | 0 | 0 | 0 | 0 | 5% CELLULOSE, QUARTZ, CALCITE, BINDER |
| 0303-2470 | EZM | 3/19/03 | Z0182S, FEDERAL BL, B5/B6/FED / NW FLR EXT UP STAIRS | HOMOGENEOUS, NON-FRIABLE, BEIGE, DEXOTEX, RESIN-LIKE | 0 | 0 | 0 | 0 | QUARTZ, CALCITE, BINDER |
| 0303-2471 | EZM | 3/19/03 | Z0182S, FEDERAL BL, B5/B6/FED / MID WALL EXT UP STAIRS | HOMOGENEOUS, NON-FRIABLE, BROWN, STUCCO, CEMENTITIOUS | <1 | 0 | 0 | <1 | QUARTZ, CALCITE, BINDER |
| 0303-2472 | EZM | 3/19/03 | Z0182S, FEDERAL BL, B5/B6/FED / NW WALL EXT UP STAIRS | HOMOGENEOUS, NON-FRIABLE, BROWN, STUCCO, CEMENTITIOUS | <1 | 0 | 0 | <1 | QUARTZ, CALCITE, BINDER |
| 0303-2473 | EZM | 3/19/03 | Z0182S, FEDERAL BL, B5/B6/FED / SW WALL EXT UP STAIRS | HOMOGENEOUS, NON-FRIABLE, BROWN, STUCCO, CEMENTITIOUS | <1 | 0 | 0 | <1 | QUARTZ, CALCITE, BINDER |

ature of Lab Supervisor: _____ Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
"Quantification done by optical estimate" 1 - 5% considered non-quantifiable.
This report relates to only the material tested.
This report is not used by the LAUSD/EHSB to claim product endorsement by NVLAP or any agency of the U.S. government.
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Hygeia Laboratories Inc.
82 W. Sierra Madre Blvd
Sierra Madre, CA 91024-2434
(626) 355-4711 (626) 355-4497 Fax

NIST / NVLAP Lab Code No. 102116-0
California ELAP Certificate No. 1269
New York ELAP Certificate No. 11017

# Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116 Point Count - 1000 Points

March 28, 2003

Ms. Greta Galoustian
LA Unified School District
1449 S. San Pedro
Los Angeles, CA 90015

Samples Analyzed: 3
Sampler: A. Lastimosa

Hygeia Reference No.: 71089 03 0034
DateCollected: March 12, 2003
Date Received: March 26, 2003
Date Analyzed: March 27, 2003

**Client Reference: 0303 / 2471-2473 San Pedro HS**

| Client Sample ID / Hygeia Sample ID | Sample Description / *Comments* | Detection Limit | Gravimetric Reduction | Analytical Results |
|---|---|---|---|---|
| **0303-2471** 842543p | Exterior stucco | 0.06% | 7% organic 36% acid soluble | <0.1% chrysotile |
| **0303-2472** 842544p | Exterior stucco | 0.06% | 8% organic 30% acid soluble | <0.1% chrysotile |
| **0303-2473** 842545p | Exterior stucco | 0.06% | 6% organic 33% acid soluble | <0.1% chrysotile |

Microscopist - Guillermo Hernandez

The analyses of the samples in this report were performed using gravimetric matrix reduction and polarized light microscopy (PLM) in accordance with the EPA method 600/R-93/116 July 1993. The asbestos concentration was determined using the semi-quantitative point count method. On a per sample basis, the accuracy and precision of point count results are not known. The result should lie within the statistical limits of variability calculated for standard reference samples routinely analyzed in the laboratory using the point count method. The limit of detection for this analytical method is 0.25 percent using 400 points and 0.10 percent using 1000 points (visual area estimates).

Hygeia recommends trasmission electron microscopy (TEM) analysis on organically bound bulk materials (eg., vinyl floor tile, mastics, roofing materials, joint compounds) when PLM analysis shows undetectable quantities of asbestos. These materials often contain milled asbestos with fiber diameters and lengths too small to be resolved by the PLM and the analysis may yield a false negative result.

Hygeia Laboratories Inc. is accredited under the NIST/NVLAP program for asbestos in bulk material by polarized light microscopy and the State of California for asbestos analysis.

Hygeia Laboratories Inc. and its personnel shall not be liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretation of information supplied by us. Liability shall extend to providing replicate analyses only. This report must not be used to claim product endorsement by NVLAP or any agency of the US Government. Hygeia will retain samples for a period of three months unless otherwise specified. This report relates only to samples submitted and analyzed. This report may not be reproduced except for in full, without the written approval of this laboratory.

Please feel free to contact Hygiea regarding any questions about these results, this report, or the analytical methods employed.

Arturo Casas - Supervisor of Optical Microscopy

Gustavo A. Delgado, Ph.D. - Director

Hygeia Laboratories Inc.
82 W. Sierra Madre Blvd
Sierra Madre, CA 91024-2434
(626) 355-4711 (626) 355-4497 Fax

NIST/NVLAP Lab Code 102116-0
California ELAP Certificate No. 1269
New York ELAP Certificate No. 11017

# Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

March 28, 2003

Ms. Greta Galoustian
LA Unified School District
1449 S. San Pedro
Los Angeles, CA 90015

Samples Analyzed: 3

Sampler: A. Lastimosa

Hygeia Reference No.: 71089 03 0034
Date Collected: March 12, 2003
Date Received: March 26, 2003
Date Analyzed: March 27, 2003

**Client Reference: 0303 / 2471-2473 San Pedro HS**

| Client Sample ID / Hygeia Sample ID | Sample Description - color / Comments | Asbestos Type, % | | | | | | Non-Asbestos Constituents, % | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Asbestos Detected | Chrysotile | Amosite | Crocidolite | Tremolite/Actinolite | Anthophyllite | Other | Cellulose | Fiberglass | Synthetic | Mineral Fillers | Vermiculite | Organic Binders | QC |
| **0303-2471** 842543 | Exterior stucco - tan | Yes | < 1 | | | | | | | | | 100 | | | |
| **0303-2472** 842544 | Exterior stucco - tan | Yes | < 1 | | | | | | | | | 100 | | | |
| **0303-2473** 842545 | Exterior stucco - tan | Yes | < 1 | | | | | | | | | 100 | | | |

Microscopist - Humberto Espinoza

The analyses of the samples in this report were performed using polarized light microscopy using the EPA method 600/R-93/116. The phase abundances provided are visually estimated and expressed as percent area. Total percentage of sample constituents may total greater than 100 due to trace amounts. The limit of detection for this analytical method is less than one percent. In multilayer samples, unless otherwise specified, the asbestos concentration is reported for the layer where asbestos is found. These results lie within the statistical limits of variability calculated for standard reference samples routinely analyzed in the laboratory. On a per sample basis, the accuracy and precision of the results depend on the type of sample and its asbestos content.

Hygeia recommends trasmission electron microscopy (TEM) analysis on organically bound bulk materials (eg., vinyl floor tile, mastics, roofing materials, joint compounds) when PLM analysis shows undetectable quantities of asbestos. These materials often contain milled asbestos with fiber diameters and lengths too small to be resolved by the PLM and the analysis may yield a false negative result.

Hygeia Laboratories Inc. is accredited under the NIST/NVLAP program for asbestos in bulk material by polarized light microscopy and the State of California for asbestos analysis.

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Arturo Casas - Supervisor of Optical Microscopy

Gustavo A. Delgado, Ph.D. - Director

# ASBESTOS BULK SAMPLE SUBMITTAL

Submitted by ACC Environmental Inc. Phone: (213) 353-1240 - fax: (213) 353-1244

3405

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT: HVAC project

SAMPLED BY: Eduardo Guerrero Company.: ACC TEL. NO.: (213) 353-1240 DATE SAMPLED: 4/24/03

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. **BLACK INK ONLY** (Rev. 3/02)

Original to OEHS lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0305-1638 | 01 | 004 BDJ | Admin + Classroom | ROOF | north | roof roll | YES (NO) |
| 0305-1639 | 02 | ↓ | ↓ | ↓ | north of Ctr. | ↓ | YES (NO) |
| 0305-1640 | 03 | | | | south | ↓ | YES (NO) |
| 0305-1641 | 04 | | | | north east | pen. mastic | YES (NO) |
| 0305-1642 | 05 | | | | south west | ↓ | YES (NO) |
| 0305-1643 | 06 | | | | southwest adj. | ↓ | YES (NO) |
| 0305-1644 | 07 | | | | north | Kick sheet | YES (NO) |
| 0305-1645 | 08 | | | | west | ↓ | YES (NO) |
| 0305-1646 | 09 | ↓ | ↓ | ↓ | south | ↓ | YES (NO) |
| 0305-1647 | 10 | 002 BAJ | Auditorium | ↓ | southeast | roof roll | YES (NO) |

CHAIN OF CUSTODY: EG

| DATE: | TIME: | NAME: PRINT AND SIGN | DEPARTMENT/AREA | NO. OF SAMPLES: |
|---|---|---|---|---|
| ~~5.13.03~~ | 12 pm | Eduardo Guerrero | ACC | 10 |
| 5.14.03 | 11AM | Laura Gomez | OEHS | 10 |

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051638 | EZM | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>ROOF<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15% FIBERGLASS<br>ROCK, TAR |
| 2003051639 | EZM | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>ROOF<br>NO/CTR | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15% FIBERGLASS<br>ROCK, TAR |
| 2003051640 | EZM | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>ROOF<br>SOUTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15% FIBERGLASS<br>ROCK, TAR |
| 2003051641 | EZM | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>ROOF<br>NE | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3% FIBERGLASS<br>ROCK, TAR |
| 2003051642 | EZM | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>ROOF<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3% FIBERGLASS<br>ROCK, TAR |
| 2003051643 | EZM | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>ROOF<br>SW ADJ. | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% FIBERGLASS<br>ROCK, TAR |
| 2003051644 | EZM | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>ROOF<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>KICKSHEET;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15% FIBERGLASS<br>ROCK, TAR |
| 2003051645 | EZM | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>ROOF<br>WEST | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>KICKSHEET;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15% FIBERGLASS<br>ROCK, TAR |
| 2003051646 | EZM | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>ROOF<br>SOUTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>KICKSHEET;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15% FIBERGLASS<br>ROCK, TAR |

Lab Supervisior Signature and Date: E Galanstian 5/21/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
"Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051647 | EZM | 05/20/2003 | 002BAJ : AUDITORIUM ROOF SE | HOMOGENEOUS; NON-FRIABLE; BLACK; ROLL ROOF; TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15% FIBERGLASS ROCK, TAR |

Lab Supervisior Signature and Date: 5/21/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
"Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

3490

# ASBESTOS BULK SAMPLE SUBMITTAL

Submitted by ACC Environmental Inc. Phone: (213) 353-1240 - fax: (213) 353-1244

EG

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT: HVAC Project

SAMPLED BY: Eduardo Guerrero Company.: ACC TEL. NO.: (213) 353-1240 DATE SAMPLED: 4/14/03

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. **BLACK INK ONLY** (Rev. 3/02)

Original to OEHS lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0305-1648 | 11 | 002 BAJ | Auditorium | ROOF | north | roofroll | YES (NO) |
| 0305-1649 | 12 | ↓ | ↓ | ↓ | southwest of Ctr. ~~northeast~~ EG | ↓ | YES (NO) |
| 0305-1650 | 13 | ↓ | ↓ | ↓ | northwest | Kicksheet | YES (NO) |
| 0305-1651 | 14 | ↓ | ↓ | ↓ | south center | ↓ | YES (NO) |
| 0305-1652 | 15 | ↓ | ↓ | ↓ | east center | ↓ | YES (NO) |
| 0305-1653 | 16 | ↓ | ↓ | ↓ | northeast | pen. mastic | YES (NO) |
| 0305-1654 | 17 | ↓ | ↓ | ↓ | southeast of center | ↓ | YES (NO) |
| 0305-1655 | 18 | ↓ | ↓ | ↓ | southwest of center | ↓ | YES (NO) |
| 0305-1656 | 19 | 005 BCJ | Classroom Bldg. 1 | ↓ | north east | Kicksheet | YES (NO) |
| 0305-1657 | 20 | ↓ | ↓ | ↓ | east | ↓ | YES (NO) |

CUSTODY:

| DATE: | TIME: | NAME; PRINT AND SIGN | DEPARTMENT/AREA | NO. OF SAMPLES: |
|---|---|---|---|---|
| ~~4/28/03~~ 5/13/03 EG | 12 pm | Eduardo Guerrero | ACC | 10 |
| 5.14.03 | 11 AM | Laura Gomez | OEHS | 10 |
| | | | | |
| | | | | |

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051648 | EZM | 05/20/2003 | 002BAJ : AUDITORIURM<br>ROOF<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15% FIBERGLASS<br>ROCK, TAR |
| 2003051649 | EZM | 05/20/2003 | 002BAJ : AUDITORIURM<br>ROOF<br>SW OF CTR | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15% FIBERGLASS<br>ROCK, TAR |
| 2003051650 | EZM | 05/20/2003 | 002BAJ : AUDITORIURM<br>ROOF<br>NW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>KICKSHEET;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15% FIBERGLASS<br>ROCK, TAR |
| 2003051651 | EZM | 05/20/2003 | 002BAJ : AUDITORIURM<br>ROOF<br>SO/CTR | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>KICKSHEET;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15% FIBERGLASS<br>ROCK, TAR |
| 2003051652 | EZM | 05/20/2003 | 002BAJ : AUDITORIURM<br>ROOF<br>EAST/CTR | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>KICKSHEET;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15% FIBERGLASS<br>ROCK, TAR |
| 2003051653 | EZM | 05/20/2003 | 002BAJ : AUDITORIURM<br>ROOF<br>NE | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% FIBERGLASS<br>TAR |
| 2003051654 | EZM | 05/20/2003 | 002BAJ : AUDITORIURM<br>ROOF<br>SE OF CTR | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% FIBERGLASS<br>TAR |
| 2003051655 | EZM | 05/20/2003 | 002BAJ : AUDITORIURM<br>ROOF<br>SW OF CTR | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% FIBERGLASS<br>TAR |
| 2003051656 | EZM | 05/20/2003 | 005BCJ : CLSRM/BLD. 1<br>ROOF<br>NE | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>KICKSHEET;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15% FIBERGLASS<br>ROCK, TAR |

Lab Supervisior Signature and Date: C Galoostian 5/21/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
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This report relates to only the material tested. An asterisk '*' indicates preliminary results.

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

# Asbestos Bulk Sample Analysis
## Laboratory Report
**SAN PEDRO HS**
**8850**

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051657 | EZM | 05/20/2003 | 005BCJ : CLSRM/BLD. 1<br>ROOF<br>EAST | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>KICKSHEET;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15% FIBERGLASS<br>ROCK, TAR |

Lab Supervisior Signature and Date: E Galoustian 5/21/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
"Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

3407

# ASBESTOS BULK SAMPLE SUBMITTAL

Submitted by ACC Environmental Inc. Phone: (213) 353-1240 - fax: (213) 353-1244

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT: HVAC project

SAMPLED BY: Eduardo Guerrero Company.: ACC TEL. NO.: (213) 353-1240 DATE SAMPLED: ~~2/25~~ 4/14/03

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. **BLACK INK ONLY** (Rev. 3/02)

Original to OEHS lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0305-1658 | 21 | 005 BCJ | Classroom Bldg. 1 | ROOF | south | kickshcet | YES (NO) |
| 0305-1659 | 22 | ↓ | ↓ | ↓ | east | roof roll | YES (NO) |
| 0305-1660 | 23 | ↓ | ↓ | ↓ | north of Ctr. | ↓ | YES (NO) |
| 0305-1661 | 24 | ↓ | ↓ | ↓ | west | ↓ | YES (NO) |
| 0305-1662 | 25 | ↓ | ↓ | ↓ | southwest | pen. mastic | YES (NO) |
| 0305-1663 | 26 | ↓ | ↓ | ↓ | southwest adjacent | ↓ | YES (NO) |
| 0305-1664 | 27 | ↓ | ↓ | ↓ | east | ↓ | YES (NO) |
| 0305-1665 | 28 | 013 BCP | Classrm. Bldg. 2 | ↓ | east | roof roll | YES (NO) |
| 0305-1666 | 29 | ↓ | ↓ | ↓ | northwest | ↓ | YES (NO) |
| 0305-1667 | 30 | ↓ | ↓ | ↓ | west | ↓ | YES (NO) |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT AND SIGN | DEPARTMENT/AREA | NO. OF SAMPLES: |
|---|---|---|---|---|
| ~~2/25/03~~ 5/13/03 EG | 12 pm | Eduardo Guerrero | ACC | 10 |
| 5.14.03 | 11 AM | Laura Gonzalez | OEHS | 10 |
| | | | | |
| | | | | |
| | | | | |

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051658 | EZM | 05/20/2003 | 005BCJ : CLSRM/BLD. 1<br>ROOF<br>SOUTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>KICKSHEET;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7% FIBERGLASS<br>ROCK, TAR |
| 2003051659 | EZM | 05/20/2003 | 005BCJ : CLSRM/BLD. 1<br>ROOF<br>EAST | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7% FIBERGLASS<br>ROCK, TAR |
| 2003051660 | EZM | 05/20/2003 | 005BCJ : CLSRM/BLD. 1<br>ROOF<br>NO/CTR | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3% FIBERGLASS<br>ROCK, TAR |
| 2003051661 | EZM | 05/20/2003 | 005BCJ : CLSRM/BLD. 1<br>ROOF<br>WEST | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7% FIBERGLASS<br>ROCK, TAR |
| 2003051662 | EZM | 05/20/2003 | 005BCJ : CLSRM/BLD. 1<br>ROOF<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% FIBERGLASS<br>ROCK, TAR |
| 2003051663 | EZM | 05/20/2003 | 005BCJ : CLSRM/BLD. 1<br>ROOF<br>SW ADJ. | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% FIBERGLASS<br>ROCK, TAR |
| 2003051664 | EZM | 05/20/2003 | 005BCJ : CLSRM/BLD. 1<br>ROOF<br>EAST | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% FIBERGLASS<br>ROCK, TAR |
| 2003051665 | EZM | 05/20/2003 | 013BCP : CLSRM/BLD. 2<br>ROOF<br>EAST | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15% FIBERGLASS<br>ROCK, TAR |
| 2003051666 | EZM | 05/20/2003 | 013BCP : CLSRM/BLD. 2<br>ROOF<br>NW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15% FIBERGLASS<br>ROCK, TAR |

Lab Supervisior Signature and Date: G Galoustian 5/21/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
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# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051667 | EZM | 05/20/2003 | 013BCP : CLSRM/BLD. 2<br>ROOF<br>WEST | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15% FIBERGLASS<br>ROCK, TAR |

Lab Supervisior Signature and Date: 5/21/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
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13408

# ASBESTOS BULK SAMPLE SUBMITTAL

Submitted by ACC Environmental Inc. Phone: (213) 353-1240 - fax: (213) 353-1244

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT: HVAC Project EG 4/14/03

SAMPLED BY: Eduardo Guerrero Company.: ACC TEL. NO.: (213) 353-1240 DATE SAMPLED: 4/25

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. **BLACK INK ONLY** (Rev. 3/02)

Original to OEHS lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0305-1668 | 31 | 013 BCP | Classrm. Bldg. 2 | ROOF | east | pen. mastic | YES (NO) |
| 0305-1669 | 32 | ↓ | ↓ | ↓ | west | ↓ | YES (NO) |
| 0305-1670 | 33 | ↓ | ↓ | ↓ | west adjacent | ↓ | YES (NO) |
| 0305-1671 | 34 | X2383P | B11, B12 | | northwest | roof roll | YES (NO) |
| 0305-1672 | 35 | | | | south | ↓ | YES (NO) |
| 0305-1673 | 36 | | | | north | ↓ | YES (NO) |
| 0305-1674 | 37 | | | | northeast | pen mastic | YES (NO) |
| 0305-1675 | 38 | | | | east | ↓ | YES (NO) |
| 0305-1676 | 39 | ↓ | ↓ | | South Gtr. | ↓ | YES (NO) |
| 0305-1677 | 40 | X2384P | B13, B14 | ↓ | northeast | roof roll | YES (NO) |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT AND SIGN | DEPARTMENT/AREA | NO. OF SAMPLES: |
|---|---|---|---|---|
| 5/13/03 EG | Rpm | Eduardo Guerrero | ACC | 10 |
| 5-14-03 | 11AM | Laura Banos | OEHS | 10 |

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051668 | LN | 05/20/2003 | 013BCP : CLSRM/BL. 2<br>ROOF<br>EAST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE, 1%<br>FIBERGLASS<br>ROCK, TAR |
| 2003051669 | LN | 05/20/2003 | 013BCP : CLSRM/BL. 2<br>ROOF<br>WEST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE, 1%<br>FIBERGLASS<br>PAINT, ROCK, TAR |
| 2003051670 | LN | 05/20/2003 | 013BCP : CLSRM/BL. 2<br>ROOF<br>WEST ADJ. | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE, 1%<br>FIBERGLASS<br>ROCK, TAR |
| 2003051671 | LN | 05/20/2003 | X2383P : RM. B11, B12<br>ROOF<br>NW | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR/FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE, 20%<br>FIBERGLASS<br>ROCK, TAR |
| 2003051672 | LN | 05/20/2003 | X2383P : RM. B11, B12<br>ROOF<br>SOUTH | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR/FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE, 20%<br>FIBERGLASS<br>ROCK, TAR |
| 2003051673 | LN | 05/20/2003 | X2383P : RM. B11, B12<br>ROOF<br>NORTH | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR/FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE, 20%<br>FIBERGLASS<br>ROCK, TAR |
| 2003051674 | LN | 05/20/2003 | X2383P : RM. B11, B12<br>ROOF<br>NE | HOMOGENEOUS;<br>NON-FRIABLE;<br>GRAY;<br>MASTIC;<br>TAR | 12 | 0 | 0 | 0 | 0 | 0 | 12 | TAR COMMENT(S): DIFF.<br>FROM 0305/1675 & 1676. |
| 2003051675 | LN | 05/20/2003 | X2383P : RM. B11, B12<br>ROOF<br>EAST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8% CELLULOSE<br>ROCK, TAR |
| 2003051676 | LN | 05/20/2003 | X2383P : RM. B11, B12<br>ROOF<br>SO/CTR | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8% CELLULOSE<br>ROCK, TAR |

Lab Supervisior Signature and Date: [signature] 5/22/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
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(213) 742-5086

# Asbestos Bulk Sample Analysis
## Laboratory Report
**SAN PEDRO HS**
**8850**

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051677 | LN | 05/20/2003 | X2384P : RM. B13, B14<br>ROOF<br>NE | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR/FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20% CELLULOSE, 20% FIBERGLASS<br>ROCK, TAR |

Lab Supervisior Signature and Date: E Galoustian 5/22/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
"Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

# ASBESTOS BULK SAMPLE SUBMITTAL

Submitted by ACC Environmental Inc. Phone: (213) 353-1240 - fax: (213) 353-1244

13409

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT: HVAC Project EG 4/15/03

SAMPLED BY: Eduardo Guerrero Company.: ACC TEL. NO.: (213) 353-1240 DATE SAMPLED: ~~2/27/03~~

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. **BLACK INK ONLY** (Rev. 3/02)

Original to OEHS lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME EG | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0305-1678 | 41 | X238HP | B13, B14 | ROOF | N | roof roll | YES (NO) |
| 0305-1679 | 42 | ↓ | ↓ | ↓ | SW | ↓ | YES (NO) |
| 0305-1680 | 43 | | | | EG WE ctr | pen. mastic | YES (NO) |
| 0305-1681 | 44 | | | | EG NE ~~W~~ ctr. | ↓ | YES (NO) |
| 0305-1682 | 45 | ↓ | ↓ | | E ctr. | ↓ | YES (NO) |
| 0305-1683 | 46 | X208ZP | B7, B8 | | N | roof roll | YES (NO) |
| 0305-1684 | 47 | ↓ | ↓ | | W ctr. | ↓ | YES (NO) |
| 0305-1685 | 48 | | | | SE | ↓ | YES (NO) |
| 0305-1686 | 49 | | | | W | pen. mastic | YES (NO) |
| 0305-1687 | 50 | ↓ | ↓ | ↓ | W of Ctr. | ↓ | YES (NO) |

CHAIN OF CUSTODY: EG

| DATE: | TIME: | NAME: PRINT AND SIGN | DEPARTMENT/AREA | NO. OF SAMPLES: |
|---|---|---|---|---|
| ~~2/28/03~~ 5/13/03 | 12pm | Eduardo Guerrero | ACC | 10 |
| 5.14.03 | 11AM | Laura Cano | OEHS | 10 |
| | | | | |
| | | | | |
| | | | | |

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051678 | LN | 05/20/2003 | X2384P : RM. 13, B14<br>ROOF<br>NORTH | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR/FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% CELLULOSE, 20% FIBERGLASS<br>ROCK, TAR |
| 2003051679 | LN | 05/20/2003 | X2384P : RM. 13, B14<br>ROOF<br>SW | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR/FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% CELLULOSE, 20% FIBERGLASS<br>ROCK, TAR |
| 2003051680 | LN | 05/20/2003 | X2384P : RM. 13, B14<br>ROOF<br>WEST/CTR | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8% CELLULOSE<br>PAINT, ROCK, TAR |
| 2003051681 | LN | 05/20/2003 | X2384P : RM. 13, B14<br>ROOF<br>NE | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8% CELLULOSE<br>PAINT, ROCK, TAR |
| 2003051682 | LN | 05/20/2003 | X2384P : RM. 13, B14<br>ROOF<br>EAST/CTR | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8% CELLULOSE<br>PAINT, ROCK, TAR |
| 2003051683 | LN | 05/20/2003 | X2082P : RM. B7, B8<br>ROOF<br>NORTH | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR/FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20% FIBERGLASS<br>ROCK, TAR |
| 2003051684 | LN | 05/20/2003 | X2082P : RM. B7, B8<br>ROOF<br>WEST/CTR | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR/FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20% FIBERGLASS<br>ROCK, TAR |
| 2003051685 | LN | 05/20/2003 | X2082P : RM. B7, B8<br>ROOF<br>SE | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR/FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20% FIBERGLASS<br>ROCK, TAR |
| 2003051686 | LN | 05/20/2003 | X2082P : RM. B7, B8<br>ROOF<br>WEST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8% CELLULOSE<br>PAINT, ROCK, TAR |

Lab Supervisior Signature and Date: E Galovstian 5/22/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
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# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051687 | LN | 05/20/2003 | X2082P : RM. B7, B8<br>ROOF<br>WEST/CTR | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8% CELLULOSE<br>PAINT, ROCK, TAR |

Lab Supervisior Signature and Date: C Calonstian | 5/22/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
"Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

# ASBESTOS BULK SAMPLE SUBMITTAL

Submitted by ACC Environmental Inc. Phone: (213) 353-1240 - fax: (213) 353-1244

13411

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT: HVAC Project

SAMPLED BY: Eduardo Guerrero Company.: ACC TEL. NO.: (213) 353-1240 DATE SAMPLED: 4/15/03

EG

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. **BLACK INK ONLY** (Rev. 3/02)

Original to OEHS lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0305-1688 | 51 | X2082P | B7, B8 | ROOF | S | pen. mastic | YES (NO) |
| 0305-1689 | 52 | X1007M | B1, B2 | | NE | ↓ | YES (NO) |
| 0305-1690 | 53 | ↓ | ↓ | | NE adj. | | YES (NO) |
| 0305-1691 | 54 | | | | NE adj. | | YES (NO) |
| 0305-1692 | 55 | | | | NW | roof roll | YES (NO) |
| 0305-1693 | 56 | | | | SW | | YES (NO) |
| 0305-1694 | 57 | | | | SE | | YES (NO) |
| 0305-1695 | 58 | 006 CBJ | Physical Ed. Bldg. | | NW | roof roll | YES (NO) |
| 0305-1696 | 59 | | | | NE | | YES (NO) |
| 0305-1697 | 60 | | | | S | | YES (NO) |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT AND SIGN | DEPARTMENT/AREA | NO. OF SAMPLES: |
|---|---|---|---|---|
| 2-28-03 5/13/03 | 12 pm | Eduardo Guerrero | ACC | 10 |
| 5/14-03 | 11 AM | Laura Cooney | OEHS | 10 |
| | | | | |
| | | | | |

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051688 | NLI | 05/20/2003 | X2082P : RM. B7, B8<br>ROOF<br>SOUTH | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE, 10% FIBERGLASS<br>ROCK, TAR |
| 2003051689 | NLI | 05/20/2003 | X1007M : RM. B1, B2<br>ROOF<br>NE | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE, 10% FIBERGLASS<br>ROCK, TAR |
| 2003051690 | NLI | 05/20/2003 | X1007M : RM. B1, B2<br>ROOF<br>NE ADJ. | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE, 10% FIBERGLASS<br>ROCK, TAR |
| 2003051691 | NLI | 05/20/2003 | X1007M : RM. B1, B2<br>ROOF<br>NE AD. | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE, 10% FIBERGLASS<br>ROCK, TAR |
| 2003051692 | NLI | 05/20/2003 | X1007M : RM. B1, B2<br>ROOF<br>NW | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% FIBERGLASS<br>ROCK, TAR |
| 2003051693 | NLI | 05/20/2003 | X1007M : RM. B1, B2<br>ROOF<br>SW | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% FIBERGLASS<br>ROCK, TAR |
| 2003051694 | NLI | 05/20/2003 | X1007M : RM. B1, B2<br>ROOF<br>SE | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% FIBERGLASS<br>ROCK, TAR |
| 2003051695 | NLI | 05/20/2003 | 006CBJ : PHY. EDUC. BLD<br>ROOF<br>NW | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% FIBERGLASS<br>ROCK, TAR |
| 2003051696 | NLI | 05/20/2003 | 006CBJ : PHY. EDUC. BLD<br>ROOF<br>NE | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% FIBERGLASS<br>ROCK, TAR |

Lab Supervisior Signature and Date: E Galoustian 5/12/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
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Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

# Asbestos Bulk Sample Analysis
## Laboratory Report
**SAN PEDRO HS**
**8850**

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051697 | NLI | 05/20/2003 | 006CBJ : PHY. EDUC. BLD<br>ROOF<br>SOUTH | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% FIBERGLASS<br>ROCK, TAR |

Lab Supervisior Signature and Date: [signature] 5/21/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
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This report relates to only the material tested. An asterisk '*' indicates preliminary results.

# ASBESTOS BULK SAMPLE SUBMITTAL

Submitted by ACC Environmental Inc. Phone: (213) 353-1240 - fax: (213) 353-1244

13411

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT: HVAC Project

SAMPLED BY: Eduardo Guerrero Company.: ACC TEL. NO.: (213) 353-1240 DATE SAMPLED: EG 4/15/03

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. BLACK INK ONLY (Rev. 3/02)

Original to OEHS lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0305-1698 | 61 | 006 (B2) | Phys. Ed. Bldg. | ROOF | NW | Kickspleet | YES (NO) |
| 0305-1699 | 62 | ↓ | ↓ | ↓ | E ctr. | ↓ | YES (NO) |
| 0305-1700 | 63 | | | | N ctr. | | YES (NO) |
| 0305-1701 | 64 | | | | SW | pen. mastic | YES (NO) |
| 0305-1702 | 65 | | | | SW adj. | | YES (NO) |
| 0305-1703 | 66 | | | | SE | | YES (NO) |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT AND SIGN | DEPARTMENT/AREA | NO. OF SAMPLES: |
|---|---|---|---|---|
| EG 2/28/03 4/15/03 5.14.03 | Rpm 11AM | Eduardo Guerrero Laura Gomez | ACC OEHS | 10 6 |

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051698 | NLI | 05/20/2003 | 006CBJ : PHYS. EDUC.<br>ROOF<br>NW | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>KICKSHEET;<br>TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% FIBERGLASS<br>ROCK |
| 2003051699 | NLI | 05/20/2003 | 006CBJ : PHYS. EDUC.<br>ROOF<br>EAST/CTR | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>KICKSHEET;<br>TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% CELLULOSE, 10%<br>FIBERGLASS<br>ROCK |
| 2003051700 | NLI | 05/20/2003 | 006CBJ : PHYS. EDUC.<br>ROOF<br>NO/CTR | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>KICKSHEET;<br>TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE, 10%<br>FIBERGLASS<br>ROCK |
| 2003051701 | NLI | 05/20/2003 | 006CBJ : PHYS. EDUC.<br>ROOF<br>SW | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% CELLULOSE, 10%<br>FIBERGLASS<br>ROCK |
| 2003051702 | NLI | 05/20/2003 | 006CBJ : PHYS. EDUC.<br>ROOF<br>SW ADJ. | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE, 10%<br>FIBERGLASS<br>ROCK |
| 2003051703 | NLI | 05/20/2003 | 006CBJ : PHYS. EDUC.<br>ROOF<br>SE | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% CELLULOSE, 10%<br>FIBERGLASS<br>ROCK |

Lab Supervisior Signature and Date: C Calvotti 5/21/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
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13412

# ASBESTOS BULK SAMPLE SUBMITTAL

Submitted by ACC Environmental Inc. Phone: (213) 353-1240 - fax: (213) 353-1244

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT: HVAC Project

SAMPLED BY: Eduardo Guerrero Company.: ACC TEL. NO.: (213) 353-1240 DATE SAMPLED: 4/16/03

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. BLACK INK ONLY (Rev. 3/02)

Original to OEHS lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0305-1704 | 67 | 002 BAJ | Auditorium | topside through (Foyer) attic | NE | Acoustical ceiling plaster | YES (NO) |
| 0305-1705 | 68 | ↓ | ↓ | ↓ | NW | ↓ | YES (NO) |
| 0305-1706 | 69 | | | | E of Ctr. | | YES (NO) |
| 0305-1707 | 70 | | | | W | | YES (NO) |
| 0305-1708 | 71 | | | | SW | | YES (NO) |
| 0305-1709 | 72 | | | ticket booth | E | ceiling sand plaster | YES (NO) |
| 0305-1710 | 73 | | | basement Hopper | S | | YES (NO) |
| 0305-1711 | 74 | ↓ | ↓ | ↓ | S adjacent | ↓ | YES (NO) |
| 0305-1712 | 75 | 003 BCJ | Home Economics | rm. 201 storage | NW | sand plaster ceiling | YES (NO) |
| 0305-1713 | 76 | ↓ | ↓ | ↓ | E ctr. | ↓ | YES (NO) |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT AND SIGN | DEPARTMENT/AREA | NO. OF SAMPLES: |
|---|---|---|---|---|
| 5/13/03 | 12 pm | Eduardo Guerrero | ACC | 10 |
| 5.14.03 | 11 AM | Laura Gomez | OEHS | 10 |
| | | | | |
| | | | | |

Los Angeles Unified School District
Office of Environmental Health and Safety
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Los Angeles, CA 90015
(213) 742-5086

# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051704 | NLI | 05/20/2003 | 002BAJ : AUDITORIUM<br>TOP SIDE THRU. FOYER<br>ATTIC<br>NE | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>YELLOW;<br>ACOUSTIC PLASTER;<br>CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <1% CELLULOSE<br>GYPSUM, QUARTZ |
| 2003051705 | NLI | 05/20/2003 | 002BAJ : AUDITORIUM<br>TOP SIDE THRU. FOYER<br>ATTIC<br>NW | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>YELLOW;<br>ACOUSTIC PLASTER;<br>CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <1% CELLULOSE<br>GYPSUM, QUARTZ |
| 2003051706 | NLI | 05/20/2003 | 002BAJ : AUDITORIUM<br>TOP SIDE THRU. FOYER<br>ATTIC<br>EAST/CTR | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>YELLOW;<br>ACOUSTIC PLASTER;<br>CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <1% CELLULOSE<br>GYPSUM, QUARTZ |
| 2003051707 | NLI | 05/20/2003 | 002BAJ : AUDITORIUM<br>TOP SIDE THRU. FOYER<br>ATTIC<br>WEST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>YELLOW;<br>ACOUSTIC PLASTER;<br>CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <1% CELLULOSE<br>GYPSUM, QUARTZ |
| 2003051708 | NLI | 05/20/2003 | 002BAJ : AUDITORIUM<br>TOP SIDE THRU. FOYER<br>ATTIC<br>SW | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>YELLOW;<br>ACOUSTIC PLASTER;<br>CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <1% CELLULOSE<br>GYPSUM, QUARTZ |
| 2003051709 | NLI | 05/20/2003 | 002BAJ : AUDITORIUM<br>TICKET BOOTH<br>EAST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>YELLOW;<br>SAND PLASTER;<br>CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <1% CELLULOSE<br>GYPSUM, QUARTZ |
| 2003051710 | NLI | 05/20/2003 | 002BAJ : AUDITORIUM<br>BASEMENT HOPPER<br>SOUTH | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>YELLOW;<br>SAND PLASTER;<br>CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE<br>GYPSUM, QUARTZ |
| 2003051711 | NLI | 05/20/2003 | 002BAJ : AUDITORIUM<br>BASEMENT HOPPER<br>SOUTH ADJ. | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>YELLOW;<br>SAND PLASTER;<br>CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE<br>GYPSUM, QUARTZ |
| 2003051712 | NLI | 05/20/2003 | 003BCJ : HOME ECON.<br>#201/STORAGE<br>NW | HOMOGENEOUS;<br>NON-FRIABLE;<br>WHITE/ YELLOW;<br>SAND PLASTER;<br>COATED/CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE<br>PAINT, ROCK |

Lab Supervisior Signature and Date: [signature] 5/21/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
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# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051713 | NLI | 05/20/2003 | 003BCJ : HOME ECON. #201/STORAGE EAST/CTR | HOMOGENEOUS; NON-FRIABLE; WHITE/ YELLOW; SAND PLASTER; COATED/CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE PAINT, ROCK |

Lab Supervisior Signature and Date: 5/21/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
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13413

# ASBESTOS BULK SAMPLE SUBMITTAL

Submitted by ACC Environmental Inc. Phone: (213) 353-1240 - fax: (213) 353-1244

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT: HVAC Project

SAMPLED BY: Eduardo Guerrero Company.: ACC TEL. NO.: (213) 353-1240 DATE SAMPLED: 4/10/03

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. BLACK INK ONLY (Rev. 3/02)

Original to OEHS lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0305-1714 | 77 | 003 BCJ | Home Economics | East Hallway Stairwell | SE | sand plaster ceiling | YES (NO) |
| 0305-1715 | 78 | ↓ | ↓ | Stairwell west | E | ↓ | YES (NO) |
| 0305-1716 | 79 | | | 1st FL Hopper | N Ctr. | | YES (NO) |
| 0305-1717 | 80 | | | rm. 201 | NW | 12x12 sq. lime ceiling tile | YES (NO) |
| 0305-1718 | 81 | | | rm. 200 | S | ↓ | YES (NO) |
| 0305-1719 | 82 | | | rm. 203 | Sadjacent | | YES (NO) |
| 0305-1720 | 83 | | | Ext. | S | stucco | YES (NO) |
| 0305-1721 | 84 | | | | SE | | YES (NO) |
| 0305-1722 | 85 | | | | E | | YES (NO) |
| 0305-1723 | 86 | ↓ | ↓ | ↓ | NE | ↓ | YES (NO) |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT AND SIGN | DEPARTMENT/AREA | NO. OF SAMPLES: |
|---|---|---|---|---|
| 4/10/03 | 12 pm | Eduardo Guerrero | ACC | 10 |
| 5.14.03 | 11 AM | Laura Gaet[illegible] | OEHS | 10 |

Los Angeles Unified School District
Office of Environmental Health and Safety
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Los Angeles, CA 90015
(213) 742-5086

# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051714 | NLI | 05/20/2003 | 003BCJ : HOME ECON.<br>EAST HALLWAY STAIRWELL<br>SE | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>WHITE/ YELLOW;<br>SAND PLASTER;<br>CEMENTITIOUS W/PAINT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE<br>GYPSUM, PAINT, QUARTZ |
| 2003051715 | NLI | 05/20/2003 | 003BCJ : HOME ECON.<br>WEST STAIRWELL<br>EAST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>WHITE/ YELLOW;<br>SAND PLASTER;<br>CEMENTITIOUS W/PAINT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE<br>GYPSUM, PAINT, QUARTZ |
| 2003051716 | NLI | 05/20/2003 | 003BCJ : HOME ECON.<br>1 FLR/HOPPER<br>NO/CTR | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>WHITE/ YELLOW;<br>SAND PLASTER;<br>CEMENTITIOUS W/PAINT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE<br>GYPSUM, PAINT, QUARTZ |
| 2003051717 | NLI | 05/20/2003 | 003BCJ : HOME ECON.<br>#201<br>NW | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>WHITE/ YELLOW;<br>CEILING TILE;<br>COATED/FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80% FIBERGLASS<br>PAINT |
| 2003051718 | NLI | 05/20/2003 | 003BCJ : HOME ECON.<br>#200<br>SOUTH | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>WHITE/ YELLOW;<br>CEILING TILE;<br>COATED/FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80% FIBERGLASS<br>PAINT |
| 2003051719 | NLI | 05/20/2003 | 003BCJ : HOME ECON.<br>#203<br>SOUTH ADJ. | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>WHITE/ YELLOW;<br>CEILING TILE;<br>COATED/FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80% FIBERGLASS<br>PAINT |
| 2003051720 | NLI | 05/20/2003 | 003BCJ : HOME ECON.<br>EXTERIOR<br>SOUTH | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE/ GRAY;<br>STUCCO;<br>COATED/CEMENTITIOUS | 1 | 0 | 0 | 0 | 0 | 0 | 1 | <1% SYNTHETIC<br>GYPSUM, PAINT, ROCK<br>COMMENT(S): VERIFIED BY MS |
| 2003051721 | NLI | 05/20/2003 | 003BCJ : HOME ECON.<br>EXTERIOR<br>SE | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE/ GRAY;<br>STUCCO;<br>COATED/CEMENTITIOUS | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 1% CELLULOSE, <1% SYNTHETIC<br>GYPSUM, PAINT, ROCK<br>COMMENT(S): VERIFIED BY MS |
| 2003051722 | NLI | 05/20/2003 | 003BCJ : HOME ECON.<br>EXTERIOR<br>EAST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE/ GRAY;<br>STUCCO;<br>COATED/CEMENTITIOUS | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 1% CELLULOSE, <1% SYNTHETIC<br>GYPSUM, PAINT, ROCK<br>COMMENT(S): VERIFIED BY MS |

Lab Supervisior Signature and Date: G Galoostian 5,21,03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
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## Asbestos Bulk Sample Analysis
## Laboratory Report
**SAN PEDRO HS**
**8850**

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051723 | NLI | 05/20/2003 | 003BCJ : HOME ECON. EXTERIOR NE | NON-HOMOGENEOUS; NON-FRIABLE; BEIGE/ GRAY; STUCCO; COATED/CEMENTITIOUS | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 1% CELLULOSE GYPSUM, PAINT, ROCK COMMENT(S): VERIFIED BY MS |

Lab Supervisior Signature and Date: [signature] 5/21/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
"Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

# ASBESTOS BULK SAMPLE SUBMITTAL

13414

Submitted by ACC Environmental Inc. Phone: (213) 353-1240 - fax: (213) 353-1244

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT: HVAC Project

SAMPLED BY: Eduardo Guerrero Company.: ACC TEL. NO.: (213) 353-1240 DATE SAMPLED: 4/16/03

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. BLACK INK ONLY (Rev. 3/02)

Original to OEHS lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0305-1724 | 87 | 003 BDJ | Home Economics | Ext. | N | stucco | YES (NO) |
| 0305-1725 | 88 | ↓ | ↓ | ↓ | NW | ↓ | YES (NO) |
| 0305-1726 | 89 | ↓ | ↓ | ↓ | W | ↓ | YES (NO) |
| 0305-1727 | 90 | 004 BDJ | Admin + Classroom | Main Area Counselor's OFFICE | N of Ctr. | 9"x9" tan-black-white-floor tiles w/black mastic | YES (NO) |
| 0305-1728 | 91 | ↓ | ↓ | Psych. room adjacent to OFFICE | SE | ↓ | YES (NO) |
| 0305-1729 | 92 | ↓ | ↓ | OFFICE SOUTH OF Main Area in Cslrs. OFF. | SE | ↓ | YES (NO) |
| 0305-1730 | 93 | ↓ | ↓ | Psych. office | N | 12"x12" Brown-white floor tile w/black mastic | YES (NO) |
| 0305-1731 | 94 | ↓ | ↓ | Counselors OFFICE N of Main Area | S Ctr. | ↓ | YES (NO) |
| 0305-1732 | 95 | ↓ | ↓ | OFFICE WEST OF Psych. office | SW | ↓ | YES (NO) |
| 0305-1733 | 96 | ↓ | ↓ | Psych. office | N | 12x12 Tan-White floor tile w/ black mastic | YES (NO) |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT AND SIGN | DEPARTMENT/AREA | NO. OF SAMPLES: |
|---|---|---|---|---|
| 5/13/03 | 12 PM | Eduardo Guerrero | ACC | 10 |
| 5.14.03 | 11AM | Laura Gomez | OEHS | 10 |

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051724 | RPC | 05/20/2003 | 003BCJ : HOME ECON.<br>EXTERIOR<br>NORTH | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE/ GRAY;<br>STUCCO;<br>CEMENTITIOUS W/PAINT | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1% CELLULOSE<br>CALCITE, GYPSUM, QUARTZ |
| 2003051725 | RPC | 05/20/2003 | 003BCJ : HOME ECON.<br>EXTERIOR<br>NW | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE/ GRAY;<br>STUCCO;<br>CEMENTITIOUS W/PAINT | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 1% CELLULOSE<br>CALCITE, GYPSUM, QUARTZ |
| 2003051726 | RPC | 05/20/2003 | 003BCJ : HOME ECON.<br>EXTERIOR<br>WEST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE/ GRAY;<br>STUCCO;<br>CEMENTITIOUS W/PAINT | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1% CELLULOSE<br>CALCITE, GYPSUM, QUARTZ |
| 2003051727-A | RPC | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>MAIN AREA/COUNSELORS<br>OFFICE<br>NO/CTR | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>LITE BROWN;<br>FLOOR TILE;<br>FLAT SOLID | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1% CELLULOSE<br>BINDER, QUARTZ |
| 2003051727-B | RPC | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>MAIN AREA/COUNSELORS<br>OFFICE<br>NO/CTR | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TARLIKE | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 2% CELLULOSE<br>TAR |
| 2003051728-A | RPC | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>PSYCH. RM ADJ. TO OFFC<br>SE | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>LITE BROWN;<br>FLOOR TILE;<br>FLAT SOLID | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1% CELLULOSE<br>BINDER, QUARTZ |
| 2003051728-B | RPC | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>PSYCH. RM ADJ. TO OFFC<br>SE | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TARLIKE | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 2% CELLULOSE<br>TAR |
| 2003051729-A | RPC | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>SO. OFFC/MAIN AREA<br>CNSLR. OFFC<br>SE | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>LITE BROWN;<br>FLOOR TILE;<br>FLAT SOLID | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1% CELLULOSE<br>BINDER, QUARTZ |
| 2003051729-B | RPC | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>SO. OFFC/MAIN AREA<br>CNSLR. OFFC<br>SE | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TARLIKE | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 2% CELLULOSE<br>TAR |

Lab Supervisior Signature and Date: E Carbonstia 5/22/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
"Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051730-A | RPC | 05/20/2003 | 004BDJ : ADMIN/CLSRM PSYCH. OFFICE NORTH | NON-HOMOGENEOUS; NON-FRIABLE; BROWN; FLOOR TILE; FLAT SOLID | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 1% CELLULOSE BINDER, QUARTZ |
| 2003051730-B | RPC | 05/20/2003 | 004BDJ : ADMIN/CLSRM PSYCH. OFFICE NORTH | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; TARLIKE | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2% CELLULOSE |
| 2003051731-A | RPC | 05/20/2003 | 004BDJ : ADMIN/CLSRM NO. MAIN AREA/CNSLR. OFC SO/CTR | NON-HOMOGENEOUS; NON-FRIABLE; BROWN; FLOOR TILE; FLAT SOLID | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 1% CELLULOSE BINDER, QUARTZ |
| 2003051731-B | RPC | 05/20/2003 | 004BDJ : ADMIN/CLSRM NO. MAIN AREA/CNSLR. OFC SO/CTR | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; TARLIKE | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2% CELLULOSE |
| 2003051732-A | RPC | 05/20/2003 | 004BDJ : ADMIN/CLSRM W. OFFC OF PSYCH. OFFC SW | NON-HOMOGENEOUS; NON-FRIABLE; BROWN; FLOOR TILE; FLAT SOLID | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 1% CELLULOSE BINDER, QUARTZ |
| 2003051732-B | RPC | 05/20/2003 | 004BDJ : ADMIN/CLSRM W. OFFC OF PSYCH. OFFC SW | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; TARLIKE | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 2% CELLULOSE |
| 2003051733-A | RPC | 05/20/2003 | 004BDJ : ADMIN/CLSRM PSYCH. OFFICE NORTH | NON-HOMOGENEOUS; NON-FRIABLE; BROWN; FLOOR TILE; FLAT SOLID | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 1% CELLULOSE BINDER, QUARTZ |
| 2003051733-B | RPC | 05/20/2003 | 004BDJ : ADMIN/CLSRM PSYCH. OFFICE NORTH | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; TARLIKE | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2% CELLULOSE |

Lab Supervisior Signature and Date: Sebastian 5/22/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
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This report relates to only the material tested. An asterisk '*' indicates preliminary results.

13415

# ASBESTOS BULK SAMPLE SUBMITTAL

Submitted by ACC Environmental Inc. Phone: (213) 353-1240 - fax: (213) 353-1244

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT: HVAC Project

SAMPLED BY: Eduardo Guerrero Company.: ACC TEL. NO.: (213) 353-1240 DATE SAMPLED: 4/16/03

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. **BLACK INK ONLY** (Rev. 3/02)

Original to OEHS lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0305-1734 | 97 | 001 BDG | Admin + Classroom | ~~Counselors~~ counselors OFF. N.of Main Area | SW | 12x12 tan-white floor tiles w/black mastic | YES (NO) |
| 0305-1735 | 98 | | | OFFICE WEST OF PSYCH OFFICE | N | ↓ | YES (NO) |
| 0305-1736 | 99 | | | 1st FL. Hall | SE | Brown battleship floor w/fabric backing | YES (NO) |
| 0305-1737 | 100 | | | Ass. Principles OFFICE EG | N | | YES (NO) |
| 0305-1738 | 101 | | | Finance OFFICE | W | | YES (NO) |
| 0305-1739 | 102 | | | COPY Rm | NE | | YES (NO) |
| 0305-1740 | 103 | | | Health OFFICE | N ctr. | ↓ | YES (NO) |
| 0305-1741 | 104 | | | counselors OFFICE | in North Area | 12x12 random ceiling tile & brown mastic | YES (NO) |
| 0305-1742 | 105 | | | ↓ | N of Ctr. | ↓ | YES (NO) |
| 0305-1743 | 106 | ↓ | ↓ | ↓ | in South area | ↓ | YES (NO) |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT AND SIGN | DEPARTMENT/AREA | NO. OF SAMPLES: |
|---|---|---|---|---|
| 5/15/03 | 12 pm | Eduardo Guerrero | ACC | 10 |
| 5-14-03 | 11 AM | Laura Gomez | OEHS | 10 |
| | | | | |
| | | | | |

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# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051734-A | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM<br>NO. MAIN AREA/CNSLR. OFC<br>SW | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>LITE BROWN;<br>FLOOR TILE;<br>FLAT SOLID | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 1% CELLULOSE<br>BINDER, QUARTZ |
| 2003051734-B | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM<br>NO. MAIN AREA/CNSLR. OFC<br>SW | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TARLIKE | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 2% CELLULOSE<br>TAR |
| 2003051735-A | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM<br>W. OFFC OF PSYCH<br>NORTH | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>LITE BROWN;<br>FLOOR TILE;<br>FLAT SOLID | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 1% CELLULOSE<br>BINDER, QUARTZ |
| 2003051735-B | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM<br>W. OFFC OF PSYCH<br>NORTH | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TARLIKE | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2% CELLULOSE<br>TAR |
| 2003051736 | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM<br>1 FLR HALL<br>SE | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BROWN;<br>BATTLESHIP;<br>FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE<br>BINDER, GYPSUM |
| 2003051737 | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM<br>A.P OFFICE<br>NORTH | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BROWN;<br>BATTLESHIP;<br>FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE<br>BINDER, GYPSUM |
| 2003051738 | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM<br>FINANCE OFFC<br>WEST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BROWN;<br>BATTLESHIP;<br>FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE<br>BINDER, GYPSUM |
| 2003051739 | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM<br>COPY RM<br>NE | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BROWN;<br>BATTLESHIP;<br>FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE<br>BINDER, GYPSUM |
| 2003051740 | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM<br>HEALTH OFFC<br>NO/CTR | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BROWN;<br>BATTLESHIP;<br>FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE<br>BINDER, GYPSUM |

Lab Supervisior Signature and Date: [signature] 5/22/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
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# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051741-A | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM COUNSELOR OFFC NORTH AREA | NON-HOMOGENEOUS; NON-FRIABLE; TAN; CEILING TILE; SOLID/FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90% CELLULOSE BINDER |
| 2003051741-B | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM COUNSELOR OFFC NORTH AREA | NON-HOMOGENEOUS; NON-FRIABLE; DARK BROWN; CEILING TILE/MASTIC; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE, 2% FIBROUS TALC BINDER, QUARTZ |
| 2003051741-C | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM COUNSELOR OFFC NORTH AREA THIS IS CEILING PLASTER | HOMOGENEOUS; NON-FRIABLE; WHITE; DEBRIS; FLUFFY TILE & QUE NKY 5/29/03 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 2% CELLULOSE BINDER COMMENT(S): SMALL FIBROUS LAYER APPEARS TO BE CROSS CONTAMINATION DURING SAMPLING |
| 2003051742-A | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM COUNSELOR OFFC NO/CTR | NON-HOMOGENEOUS; NON-FRIABLE; TAN; CEILING TILE; SOLID/FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90% CELLULOSE BINDER |
| 2003051742-B | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM COUNSELOR OFFC NO/CTR | NON-HOMOGENEOUS; NON-FRIABLE; DARK BROWN; CEILING TILE/MASTIC; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE, 2% FIBROUS TALC BINDER, QUARTZ |
| 2003051743-A | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM COUNSELOR OFFC SOUTH AREA | NON-HOMOGENEOUS; NON-FRIABLE; TAN; CEILING TILE; SOLID/FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90% CELLULOSE BINDER |
| 2003051743-B | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM COUNSELOR OFFC SOUTH AREA | NON-HOMOGENEOUS; NON-FRIABLE; DARK BROWN; CEILING TILE/MASTIC; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE, 2% FIBROUS TALC BINDER, QUARTZ |
| 2003051743-C | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM COUNSELOR OFFC SOUTH AREA THIS IS CEILING PLASTER | HOMOGENEOUS; NON-FRIABLE; WHITE; DEBRIS; FLUFFY TILE & CEMENT 5/29/03 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 2% CELLULOSE BINDER COMMENT(S): FIBROUS LAYER APPEARS TO BE CROSS CONTAMINATION DURING SAMPLING |

Lab Supervisior Signature and Date: 5/22/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
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3416

# ASBESTOS BULK SAMPLE SUBMITTAL

Submitted by ACC Environmental Inc. Phone: (213) 353-1240 - fax: (213) 353-1244

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT: HVAC Project

SAMPLED BY: Eduardo Guerrero Company.: ACC TEL. NO.: (213) 353-1240 DATE SAMPLED: 4/10/03

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. **BLACK INK ONLY** (Rev. 3/02)

Original to OEHS lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0305-1744 | 107 | 004 BDJ | Admin + Classroom | craft + printshop | S | 12x12 sf. lino ceiling tile mastic | YES (NO) |
| 0305-1745 | 108 | ↓ | ↓ | ↓ | SE | ↓ | YES (NO) |
| 0305-1746 | 109 | | | | SW | | YES (NO) |
| 0305-1747 | 110 | | | Counseling Area | N area | sand plaster ceiling | YES (NO) |
| 0305-1748 | 111 | | | ↓ | N ctr. | ↓ | YES (NO) |
| 0305-1749 | 112 | | | ↓ | S area | ↓ | YES (NO) |
| 0305-1750 | 113 | | | rm. 2 Basement | W | 9x9 "yellow" floor tile w/ black mastic | YES (NO) |
| 0305-1751 | 114 | | | ↓ | N | ↓ | YES (NO) |
| 0305-1752 | 115 | | | by oven | SE | | YES (NO) |
| 0305-1753 | 116 | ↓ | ↓ | rm. 1 Basement | N | 9x9 brown-white floor tiles w/ black mastic | YES (NO) |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT AND SIGN | DEPARTMENT/AREA | NO. OF SAMPLES: |
|---|---|---|---|---|
| 5/13/03 | 12pm | Eduardo Guerrero | ACC | 10 |
| 5.14.03 | 11AM | Laura Gomez | OEHS | 10 |

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# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051744-A | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM CRAFT/PRINT SHOP SOUTH | NON-HOMOGENEOUS; NON-FRIABLE; DARK BROWN/ TAN; CEILING TILE; SOLID/FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90% CELLULOSE BINDER |
| 2003051744-B | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM CRAFT/PRINT SHOP SOUTH | HOMOGENEOUS; NON-FRIABLE; DARK BROWN; CEILING TILE/MASTIC; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE, 2% FIBROUS TALC BINDER, QUARTZ |
| 2003051744-C | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM CRAFT/PRINT SHOP SOUTH THIS IS CEILING PLASTER | NON-HOMOGENEOUS; NON-FRIABLE; WHITE; DEBRIS; FLUFFY THE TILE & MASTIC ARE NEG 5/28/03 MR | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 2% CELLULOSE BINDER COMMENT(S): WHITE FIBROUS, FLUFFY LAYER APPEARS TO BE CROSS CONTAMINATION DURING SAMPLING |
| 2003051745-A | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM CRAFT/PRINT SHOP SE | NON-HOMOGENEOUS; NON-FRIABLE; DARK BROWN/ TAN; CEILING TILE; SOLID/FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90% CELLULOSE BINDER |
| 2003051745-B | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM CRAFT/PRINT SHOP SE | HOMOGENEOUS; NON-FRIABLE; DARK BROWN; CEILING TILE/MASTIC; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE, 2% FIBROUS TALC BINDER, QUARTZ |
| 2003051745-C | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM CRAFT/PRINT SHOP SE THIS IS THE CEILING PLASTER | NON-HOMOGENEOUS; NON-FRIABLE; WHITE; DEBRIS; FLUFFY CEILING TILE & MASTIC ARE NEG 5/28/03 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 2% CELLULOSE BINDER COMMENT(S): WHITE FIBROUS, FLUFFY LAYER APPEARS TO BE CROSS CONTAMINATION DURING SAMPLING |
| 2003051746-A | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM CRAFT/PRINT SHOP SW | NON-HOMOGENEOUS; NON-FRIABLE; DARK BROWN/ TAN; CEILING TILE; SOLID/FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90% CELLULOSE BINDER |
| 2003051746-B | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM CRAFT/PRINT SHOP SW | HOMOGENEOUS; NON-FRIABLE; DARK BROWN; CEILING TILE/MASTIC; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE BINDER, QUARTZ |

Lab Supervisior Signature and Date: G Sabastian 5/22/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
"Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

**Asbestos Bulk Sample Analysis**
**Laboratory Report**
SAN PEDRO HS
8850

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051746-C | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM<br>CRAFT/PRINT SHOP<br>SW | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>WHITE;<br>DEBRIS;<br>FLUFFY | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 2% CELLULOSE<br>BINDER COMMENT(S):<br>WHITE FIBROUS, FLUFFY LAYER APPEARS TO BE CROSS CONTAMINATION DURING SAMPLING |
| 2003051747 | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM<br>COUNSELING AREA<br>NORTH AREA | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>GRAY;<br>SAND PLASTER;<br>CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE<br>CALCITE, GYPSUM, QUARTZ |
| 2003051748 | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM<br>COUNSELING AREA<br>NO/CTR | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>GRAY;<br>SAND PLASTER;<br>CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE<br>CALCITE, GYPSUM, QUARTZ |
| 2003051749 | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM<br>COUNSELING AREA<br>SOUTH AREA | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>GRAY;<br>SAND PLASTER;<br>CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE<br>CALCITE, GYPSUM, QUARTZ |
| 2003051750-A | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM<br>BASEMENT/#2<br>WEST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>GRAY;<br>FLOOR TILE;<br>FLAT SOLID | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1% CELLULOSE<br>BINDER, QUARTZ |
| 2003051750-B | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM<br>BASEMENT/#2<br>WEST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TARLIKE | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 2% CELLULOSE<br>TAR |
| 2003051751-A | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM<br>BASEMENT/#2<br>NORTH | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>GRAY;<br>FLOOR TILE;<br>FLAT SOLID | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1% CELLULOSE<br>BINDER, QUARTZ |
| 2003051751-B | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM<br>BASEMENT/#2<br>NORTH | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TARLIKE | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 2% CELLULOSE<br>TAR |
| 2003051752-A | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM<br>BASEMENT BY OVEN<br>SE | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>GRAY;<br>FLOOR TILE;<br>FLAT SOLID | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1% CELLULOSE<br>BINDER, QUARTZ |

THIS IS CEILING PLASTER

CEILING TILE & MAST. ARE NEG Michael Lewis 5/29/03

Lab Supervisior Signature and Date: 5/22/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
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Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051752-B | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM BASEMENT BY OVEN SE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; TARLIKE | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 2% CELLULOSE TAR |
| 2003051753-A | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM BASEMENT/#1 NORTH | NON-HOMOGENEOUS; NON-FRIABLE; BROWN; FLOOR TILE; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE BINDER, QUARTZ |
| 2003051753-B | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM BASEMENT/#1 NORTH | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; TARLIKE | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2% CELLULOSE TAR |
| 2003051753-C | RPC | 05/21/2003 | 004BDJ : ADMIN/CLSRM BASEMENT/#1 NORTH | NON-HOMOGENEOUS; NON-FRIABLE; DARK BROWN; FLOORING; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE BINDER, QUARTZ |

Lab Supervisior Signature and Date: [signature] 5/22/03

Signature of Analyst: _____

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# ASBESTOS BULK SAMPLE SUBMITTAL

Submitted by ACC Environmental Inc. Phone: (213) 353-1240 - fax: (213) 353-1244

3417

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT: HVAC Project

SAMPLED BY: Eduardo Guerrero Company.: ACC TEL. NO.: (213) 353-1240 DATE SAMPLED: 4/16/03

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. BLACK INK ONLY (Rev. 3/02)

Original to OEHS lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0305-1754 | 117 | Gen BLDG | Admin+Classroom | rm. 1 basement | W | 9x9" brown/white floor tiles w/ black mastic | YES NO |
| 0305-1755 | 118 | | | rm. 1 basement ~~N. Entrance~~ EG | NE S | 9x9" ~~red~~/white brown Floor tiles w/ black mastic | YES NO |
| 0305-1756 | 119 | | | N. Entrance | NE adj. | 9x9" red/w/white streaks w/black mastic | YES NO |
| 0305-1757 | 120 | | | ↓ | NW | ↓ | YES NO |
| 0305-1758 | 121 | | | ↓ | NE | ↓ | YES NO |
| 0305-1759 | 122 | | | E. Ent. Lobby | W | 9x9" dark red brown w/streaks + black mastic (Floor tile) | YES NO |
| 0305-1760 | 123 | | | ↓ | S | ↓ | YES NO |
| 0305-1761 | 124 | | | ↓ | NE | ↓ | YES NO |
| 0305-1762 | 125 | | | Principle's OFFICE | NW | red brown 9x9" tile w/ white streaks | YES NO |
| 0305-1763 | 126 | ↓ | ↓ | ↓ | NW adj. | ↓ | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT AND SIGN | DEPARTMENT/AREA | NO. OF SAMPLES: |
|---|---|---|---|---|
| 5/13/03 | 12 pm | Eduardo Guerrero | ACC | 10 |
| 5/14/03 | 11 AM | Laura Gomez | OEHS | 10 |

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Los Angeles, CA 90015
(213) 742-5086

# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051754-A | LN | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>#1/BASEMENT<br>WEST | HOMOGENEOUS;<br>NON-FRIABLE;<br>LITE BROWN;<br>FLOOR TILE;<br>FLAT SOLID | 6 | 0 | 0 | 0 | 0 | 0 | 6 | BINDER, CARBONATES |
| 2003051754-B | LN | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>#1/BASEMENT<br>WEST | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 8 | 0 | 0 | 0 | 0 | 0 | 8 | TAR |
| 2003051755-A | LN | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>#1/BASEMENT<br>SOUTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>LITE BROWN;<br>FLOOR TILE;<br>FLAT SOLID | 6 | 0 | 0 | 0 | 0 | 0 | 6 | BINDER, CARBONATES |
| 2003051755-B | LN | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>#1/BASEMENT<br>SOUTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 8 | 0 | 0 | 0 | 0 | 0 | 8 | TAR |
| 2003051756-A | LN | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>NO. ENTRANCE<br>NE ADJ. | HOMOGENEOUS;<br>NON-FRIABLE;<br>RED;<br>FLOOR TILE;<br>FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, CARBONATES |
| 2003051756-B | LN | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>NO. ENTRANCE<br>NE ADJ. | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% CELLULOSE<br>TAR |
| 2003051757-A | LN | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>NO. ENTRANCE<br>NW | HOMOGENEOUS;<br>NON-FRIABLE;<br>RED;<br>FLOOR TILE;<br>FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, CARBONATES |
| 2003051757-B | LN | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>NO. ENTRANCE<br>NW | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% CELLULOSE<br>BINDER, TAR |
| 2003051758-A | LN | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>NO. ENTRANCE<br>NE | HOMOGENEOUS;<br>NON-FRIABLE;<br>RED;<br>FLOOR TILE;<br>FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, CARBONATES |

Lab Supervisior Signature and Date: Sebastian 5/22/03

Signature of Analyst: _____

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Los Angeles, CA 90015
(213) 742-5086

# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051758-B | LN | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>NO. ENTRANCE<br>NE | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% CELLULOSE<br>BINDER, TAR |
| 2003051759-A | LN | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>E. ENT. LOBBY<br>WEST | HOMOGENEOUS;<br>NON-FRIABLE;<br>BROWN;<br>FLOOR TILE;<br>FLAT SOLID | 8 | 0 | 0 | 0 | 0 | 0 | 8 | BINDER, CARBONATES |
| 2003051759-B | LN | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>E. ENT. LOBBY<br>WEST | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | TAR |
| 2003051760-A | LN | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>E. ENT. LOBBY<br>SOUTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BROWN;<br>FLOOR TILE;<br>FLAT SOLID | 8 | 0 | 0 | 0 | 0 | 0 | 8 | BINDER, CARBONATES |
| 2003051760-B | LN | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>E. ENT. LOBBY<br>SOUTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | TAR |
| 2003051761-A | LN | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>E. ENT. LOBBY<br>NE | HOMOGENEOUS;<br>NON-FRIABLE;<br>BROWN;<br>FLOOR TILE;<br>FLAT SOLID | 8 | 0 | 0 | 0 | 0 | 0 | 8 | BINDER, CARBONATES |
| 2003051761-B | LN | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>E. ENT. LOBBY<br>NE | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | TAR |
| 2003051762-A | LN | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>PRINCPLE OFFICE<br>NW | HOMOGENEOUS;<br>NON-FRIABLE;<br>ORANGE;<br>FLOOR TILE;<br>FLAT SOLID | 8 | 0 | 0 | 0 | 0 | 0 | 8 | BINDER, CARBONATES |
| 2003051762-B | LN | 05/20/2003 | 004BDJ : ADMIN/CLSRM<br>PRINCPLE OFFICE<br>NW | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 8 | 0 | 0 | 0 | 0 | 0 | 8 | TAR |

Lab Supervisior Signature and Date: 5/22/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
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Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

Date Received: 05/14/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003051763-A | LN | 05/20/2003 | 004BDJ : ADMIN/CLSRM PRINCPLE OFFICE NW ADJ. | HOMOGENEOUS; NON-FRIABLE; ORANGE; FLOOR TILE; FLAT SOLID | 8 | 0 | 0 | 0 | 0 | 0 | 8 | BINDER, CARBONATES |
| 2003051763-B | LN | 05/20/2003 | 004BDJ : ADMIN/CLSRM PRINCPLE OFFICE NW ADJ. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; TAR | 8 | 0 | 0 | 0 | 0 | 0 | 8 | TAR |

Lab Supervisior Signature and Date: 5/22/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
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# ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME: SAN PEDRO HS | CODE: 8850 | PROJECT: EXTEND WALL

SAMPLED BY: ANDY M. GUEVARRA | DEPT.: CARP AA | TEL. NO.: 310.515.3155 | DATE SAMPLED: 5/27/03

Fill in all information Legibly and Precisely. Sampler should make a copy before submitting to the lab. **DO NOT USE PENCIL** (Rev. 4/95) ©!

Original to EHSB lab with samples. Lab will FAX a copy to ATU with sample numbers. Results sheet to be FAXED to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE) |
|---|---|---|---|---|---|---|---|
| 0305-2884 | SPC 01 | 004BDJ | ADMIN. AND CLSRM. BLDG. | RM. B | N/EAST | SAND PLASTER CEILING ABOVE ACT TILES | (YES) NO |
| 0305-2885 | SPC02 | ↓ | ↓ | RM. D | N/WEST | ↓ | (YES) NO |
| 0305-2886 | SPC03 | ↓ | ↓ | RM. A | N/WEST | ↓ | (YES) NO |
| | 7 | | | COUNCELORS OFFICES | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | L | | | | | | YES NO |

CHAIN OF CUSTODY:

| DATE: | TIME: | NAME: PRINT & SIGN: | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 5/28/03 | 10:40 | A.M. GUEVARRA | CARPENTRY / MO-K | (3) |
| 5-28-03 | 10:40 AM | W.M. SHANNON | EQUIP / K | 3 |
| | | | | |
| | | | | |
| | | | | |

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 742-5086

# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

Date Received: 05/28/2003



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003052884 | MS | 05/29/2003 | 004BDJ : ADMN. & CLRM BLD RM B NORTH EAST | NON-HOMOGENEOUS; FRIABLE; BROWN; SAND PLASTER; POWDERY/FIBROUS | 3 | 0 | 0 | 0 | 0 | 0 | 3 | <1% CELLULOSE BINDER, PAINT, PERLITE, QUARTZ |
| 2003052885 | MS | 05/29/2003 | 004BDJ : ADMN. & CLRM BLD RM D NORTH WEST | NON-HOMOGENEOUS; FRIABLE; BROWN; SAND PLASTER; POWDERY/FIBROUS | 3 | 0 | 0 | 0 | 0 | 0 | 3 | <1% CELLULOSE BINDER, PAINT, PERLITE, QUARTZ |
| 2003052886 | MS | 05/29/2003 | 004BDJ : ADMN. & CLRM BLD RM A NORTH WEST | NON-HOMOGENEOUS; FRIABLE; BROWN; SAND PLASTER; POWDERY/FIBROUS | 3 | 0 | 0 | 0 | 0 | 0 | 3 | <1% CELLULOSE BINDER, PAINT, PERLITE, QUARTZ |

Lab Supervisor Signature and Date: Sebastian 5/30/03

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
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# OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

17762

TE NAME: San Pedro S.H (1AB) CODE: 8850 PROJECT: Maintenance

MPLED BY: F.A. Bartolucci DEPT / CONSULTANT: M&O/8 TEL. NO.: 310-808-1552 DATE SAMPLED: 1-22-04

l in all information legibly and precisely. Sampler should make a copy before submitting samples to the lab. USE BLACK/BLUE INK ONLY.
iginal to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 0501-0975 | FB 1 | 004 BDJ | Admin | 2nd Floor Breezeway | Ceiling | Ceiling Plaster | YES (NO) |
| 0501-0976 | FB 2 | " | " | " | " | " | YES (NO) |
| 0501-0977 | FB 3 | " | " | " | " | " | YES (NO) |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

| DATE: | TIME: | NAME (PRINT & SIGN): | DEPT/AREA/CONSULTANT: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 1-22-05 | 7:30 am | F.A. Bartolucci / F.A. Bartolucci | Carp/ M&O 8 | 3 |
| 1-24-05 | 10.00am | Seyra | OEHS | 3 |
| | | | | |
| | | | | |

Bond Funded: Yes (No)
Type of Bond: _____
Job Cost #: _____

Other Than Bond Describe
Maintenance & Operations: X
Deferred Maintenance: _____
Other: _____

bulk sampl

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

NVLAP LAB# 101905-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 01/24/2005



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2005010975 | ST | 01/24/2005 | 004BDJ : ADMIN 2 FLR/BREEZEWAY CEILING | HOMOGENEOUS; NON-FRIABLE; BEIGE/ LITE BROWN/ WHITE; PLASTER CEILING; CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, CARBONATES, QUARTZ, ROCK, SAND |
| 2005010976 | ST | 01/24/2005 | 004BDJ : ADMIN 2 FLR/BREEZEWAY CEILING | HOMOGENEOUS; NON-FRIABLE; BEIGE/ LITE BROWN/ WHITE; PLASTER CEILING; CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, CARBONATES, QUARTZ, ROCK, SAND |
| 2005010977 | ST | 01/24/2005 | 004BDJ : ADMIN 2 FLR/BREEZEWAY CEILING | HOMOGENEOUS; NON-FRIABLE; BEIGE/ LITE BROWN/ WHITE; PLASTER CEILING; CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, CARBONATES, QUARTZ, ROCK, SAND |

Lab Supervisior Signature and Date: 1/24/05

Signature of Analyst:

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
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This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government.
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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

PROJECT: Exterior Painting 17633

SITE NAME: San Pedro High School CODE: 8850 DEPT. / CONSULTANT: ATC Associates Inc. TEL. NO: 6/447-5216

SAMPLED BY: Carlos A. Galdamez DATE SAMPLED: 12/29/2004

USE BLACK/BLUE INK ONLY

1 In all information legibly and precisely. Sampler should make a copy before submitting samples to the lab. Original to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 0501-0009 | 1 | 002BAJ | Auditorium | Exterior Wall | Lower Level : NE | Exterior Dark Brn | YES / NO |
| 0501-0010 | 2 | | | | : NW | | YES / NO |
| 0501-0011 | 3 | | | | N/CENTER | | YES / NO |
| 0501-0012 | 4 | | | | E/CENTER | | YES / NO |
| 0501-0013 | 5 | | | | SE | | YES / NO |
| 0501-0014 | 6 | | | | SW | | YES / NO |
| 0501-0015 | 7 | | | | W/CENTER | | YES / NO |
| 0501-0016 | 8 | 003BCJ | Home Econ. | Exterior Walls | NW | Exterior Dark Brn | YES / NO |
| 0501-0017 | 9 | | | | SW | | YES / NO |
| 0501-0018 | 10 | | | | S/CENTER | | YES / NO |
| 0501-0019 | 11 | | | | SE | | YES / NO |
| 0501-0020 | 12 | | | | E/CENTER | | YES / NO |

| DATE | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT | NO. OF SAMPLES |
|---|---|---|---|---|
| 1-3-05 | 11:05 AM | Carlos Galdamez | ATC | 12 |
| 1-3-05 | 11:05 AM | M. Martinez / | OEHS | 12 |

Bond Funded: Yes / No BB

Type of Bond

Job Cost #: 97.01463

Other Than Bond Describe

Maintenance & Operations:

Deferred Maintenance:

Other:

PLAN: JAN. 6, 2005 5:06PM ATC ASSOCIATES INC.

# LOS ANGELES UNIFIED SCHOOL DISTRICT
## OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

17634

SITE NAME: San Pedro High School  CODE: 8850  PROJECT: Exterior Painting

SAMPLED BY: Carlos A. Galdamez  DATE SAMPLED: 12/29/2004  DEPT. (CONSULTANT): ATC Associates Inc.  TEL. NO: 6/447-5216

USE BLACK/BLUE INK ONLY

Fill in all information legibly and precisely. Sampler should make a copy before submitting samples to the lab. Original to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 0501-0021 | 13 | 003DCJ | Home Econ. | Exterior Walls | NE | EXTERIOR DARK COAT | YES / NO |
| 0501-0022 | 14 | ↓ | ↓ | ↓ | N/CENTER | ↓ | YES / NO |
| 0501-0023 | 15 | | | Ext. Windows | W/CENTER | WINDOW PUTTY | YES / NO |
| 0501-0024 | 16 | | | ↓ | SW | ↓ | YES / NO |
| 0501-0025 | 17 | | CLASSROOM BLDG #1 | | NE | EXTERIOR DARK COAT | YES / NO |
| 0501-0026 | 18 | 050CJ | | Ext. Walls | W/CENTER | | YES / NO |
| 0501-0027 | 19 | | | | SW | | YES / NO |
| 0501-0028 | 20 | | | | SE | | YES / NO |
| 0501-0029 | 21 | | | | E/CENTER | | YES / NO |
| 0501-0030 | 22 | | | | NE | | YES / NO |
| 0501-0031 | 23 | | | | N/CENTER | | YES / NO |
| 0501-0032 | 24 | ↓ | ↓ | ↓ | NW | ↓ | YES / NO |

| DATE | TIME | NAME (PRINT & SIGN): | DEPARTMENT / AREA / (CONSULTANT) | NO. OF SAMPLES |
|---|---|---|---|---|
| 1-3-05 | 11:15 AM | Carlos Galdamez | ATC / | 12 |
| 1-3-05 | 11:05 AM | M. Martinez / HO | OEHS | 12 |

Bond Funded (Yes) No

Type of B: BB

Job Cost #: 97.01463

Other Than Bond Describe

Maintenance & Operations:

Deferred Maintenance:

Other:

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP LAB# 101999-0
Method EPA/600/R-93/116(PLOD) July 19
Date Received: 01/03/20



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AMI % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2005010009 | NLI | 01/03/2005 | 002BAJ : AUDITORIUM<br>EXTER. WALL<br>NE LOWER LEVEL | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE;<br>DASHCOAT;<br>COATED MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | PAINT, SAND |
| 2005010010 | NLI | 01/03/2005 | 002BAJ : AUDITORIUM<br>EXTER. WALL<br>NW LOWER LEVEL | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE;<br>DASHCOAT;<br>COATED MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | PAINT, SAND |
| 2005010011 | NLI | 01/03/2005 | 002BAJ : AUDITORIUM<br>EXTER. WALL<br>NO/CTR | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE;<br>DASHCOAT;<br>COATED MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | PAINT, SAND |
| 2005010012 | NLI | 01/03/2005 | 002BAJ : AUDITORIUM<br>EXTER. WALL<br>EAST/CTR | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE;<br>DASHCOAT;<br>COATED MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | PAINT, SAND |
| 2005010013 | NLI | 01/03/2005 | 002BAJ : AUDITORIUM<br>EXTER. WALL<br>SE | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE;<br>DASHCOAT;<br>COATED MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | PAINT, SAND |
| 2005010014 | NLI | 01/03/2005 | 002BAJ : AUDITORIUM<br>EXTER. WALL<br>SW | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE;<br>DASHCOAT;<br>COATED MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | PAINT, SAND |
| 2005010015 | NLI | 01/03/2005 | 002BAJ : AUDITORIUM<br>EXTER. WALL<br>WEST/CTR | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE;<br>DASHCOAT;<br>COATED MATERIAL | <1 | 0 | 0 | 0 | 0 | 0 | <1 | PAINT, SAND |
| 2005010016 | NLI | 01/03/2005 | 003BCJ : HOME ECON.<br>EXTER. WALL<br>NW | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE/ WHITE/ YELLOW;<br>DASHCOAT;<br>COATED MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 5% CELLULOSE<br>GYPSUM, PAINT, SAND |
| 2005010017 | NLI | 01/03/2005 | 003BCJ : HOME ECON.<br>EXTER. WALL<br>SW | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE/ WHITE/ YELLOW;<br>DASHCOAT;<br>COATED MATERIAL | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 5% CELLULOSE<br>GYPSUM, PAINT, SAND |

Lab Supervisor Signature and Date: 1/5/05 Signature of Analyst:

Note: No Asbestos Detected; < 1 %. Asbestos Detected Above 0% and Below or Equal to 1 % [illegible] report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government.
Identification done by optical estimate. 1 - 5 % considered non-quantifiable. An asterisk '*' indicates preliminary results.
This report relates to only the material tested. This report may not be reproduced except in its entirety.

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
5850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 19[illegible]
Date Received: 01/03/20[illegible]



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20050100018 | NLI | 01/03/2005 | 003BCJ : HOME ECON. EXTER. WALL SO/CTR | NON-HOMOGENEOUS; NON-FRIABLE; BEIGE/ WHITE/ YELLOW; DASHCOAT; COATED MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 5% CELLULOSE GYPSUM, PAINT, SAND |
| 20050100019 | NLI | 01/03/2005 | 003BCJ : HOME ECON. EXTER. WALL SE | NON-HOMOGENEOUS; NON-FRIABLE; BEIGE/ WHITE/ YELLOW; DASHCOAT; COATED MATERIAL. | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 5% CELLULOSE GYPSUM, PAINT, SAND |
| 20050100020 | NLI | 01/03/2005 | 003BCJ : HOME ECON. EXTER. WALL EAST/CTR | NON-HOMOGENEOUS; NON-FRIABLE; BEIGE/ WHITE/ YELLOW; DASHCOAT; COATED MATERIAL | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 5% CELLULOSE GYPSUM, PAINT, SAND |

Lab Supervisor Signature and Date: [illegible] 1/5/05

Signature of Analyst: [illegible]

Note: 0[illegible] Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 % T[illegible]ort is not used by LAUSD to claim product endorsement by NVLAP or [illegible]gency of the U.S. Government.
"[illegible]lification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk "*" indicates preliminary results. This report may not be reproduced except in its entirety.

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Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

NVLAP LAB# 101
Method EPA/600/R-93/116(PLOD) July
Date Received: 01/03/



| LAUSD Lab# | SHC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AMI % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2005010021 | LN | 01/04/2005 | 003BCJ : HOME ECON. EXTER. WALL NE | NON-HOMOGENEOUS; NON-FRIABLE; BEIGE; DASHCOAT; PAINT MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | PAINT |
| 2005010022 | LN | 01/04/2005 | 003BCJ : HOME ECON. EXTER. WALL NC/CTR | NON-HOMOGENEOUS; NON-FRIABLE; BEIGE; DASHCOAT; PAINT MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | PAINT |
| 2005010023 | LN | 01/04/2005 | 003BCJ : HOME ECON. EXTER. WINDOW WEST/CTR | NON-HOMOGENEOUS; NON-FRIABLE; LITE BROWN; PUTTY; GRANULAR | 1 | 0 | 0 | 0 | 0 | 0 | 1 | CARBONATES, PAINT |
| 2005010024 | LN | 01/04/2005 | 003BCJ : HOME ECON. EXTER. WINDOW SW | NON-HOMOGENEOUS; NON-FRIABLE; OFF WHITE; PUTTY; POWDERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | CARBONATES, PAINT COMMENT(S): ANALYZED SEVERAL TIMES; ALL ND |
| 2005010025 | LN | 01/04/2005 | 003BCJ : HOME ECON. EXTER. WINDOW NE | NON-HOMOGENEOUS; NON-FRIABLE; LITE BROWN; PUTTY; GRANULAR | 1 | 0 | 0 | 0 | 0 | 0 | 1 | CARBONATES, PAINT |
| 2005010026 | LN | 01/04/2005 | 003BCJ : CLSRM/BLD. 1 EXTER. WALL WEST/CTR | NON-HOMOGENEOUS; NON-FRIABLE; BEIGE; DASHCOAT; PAINT MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | PAINT |
| 2005010027 | LN | 01/04/2005 | 005BCJ : CLSRM/BLD. 1 EXTER. WALL SW | NON-HOMOGENEOUS; NON-FRIABLE; BEIGE; DASHCOAT; PAINT MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | PAINT |
| 2005010028 | LN | 01/04/2005 | 005BCJ : CLSRM/BLD. 1 EXTER. WALL SE | NON-HOMOGENEOUS; NON-FRIABLE; BEIGE; DASHCOAT; PAINT MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | PAINT |
| 2005010029 | LN | 01/04/2005 | 005BCJ : CLSRM/BLD. 1 EXTER. WALL EAST/CTR | NON-HOMOGENEOUS; NON-FRIABLE; BEIGE; DASHCOAT; PAINT MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | PAINT |

Lab S[illegible]sior Signature and Date: [signature] 1/[illegible]05

Signature of Analyst: K. Noble

Note: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %

[illegible] report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government.

"Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.

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[illegible] material tested. An asterisk (*) indicates preliminary results.

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

NVLAP LAB# 101[illegible]
Method EPA/600/R-93/116(MOD) July
Date Received: 01/03



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AMI % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2005010030 | LN | 01/04/2005 | 005BCJ : CLSRM/BLD. I<br>EXTER. WALL<br>NE | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE;<br>DASHCOAT;<br>PAINT MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | PAINT |
| 2005010031 | LN | 01/04/2005 | 005BCJ : CLSRM/BLD. I<br>EXTER. WALL<br>NO/CTR | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE;<br>DASHCOAT;<br>PAINT MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | PAINT |
| 2005010032 | LN | 01/04/2005 | 005BCJ : CLSRM/BLD. I<br>EXTER. WALL<br>NW | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE;<br>DASHCOAT;<br>PAINT MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | PAINT |

Lab Supervisor Signature and Date: [signature] 1/10/05

Signature of Analyst: L. Noble

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
*Quantification done by optical estimate* 1 - 5 % considered non-quantifiable.
An asterisk "*" indicates preliminary results.

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Hygeia Laboratories Inc.
82 W. Sierra Madre Blvd
Sierra Madre, CA 91024-2434
(626) 355-4711 (626) 355-4497 Fax

NIST / NVLAP Lab Code No. 102116-0
California ELAP Certificate No. 1269
New York ELAP Certificate No. 11017

Report Revised 1/17/05

# Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116 Point Count - 1000 Points

January 13, 20

Mr. Carlos Galdamez
ATC Arcadia
50 East Foothill Blvd.
Arcadia, CA 91006

Samples Analyzed: 8
Sampler: C. Galdamez

Hygeia Reference No.: 00052 05 0009
Date Collected: December 29, 2004
Date Received: January 7, 2005
Date Analyzed: January 11, 2005

**Client Reference: Task 2 52.25750.0030 LAUSD - San Pedro HS (Exterior Painting)**

| Client Sample ID / Hygeia Sample ID | Sample Description / *Comments* | Detection Limit | Gravimetric Reduction | Analytical Results |
|---|---|---|---|---|
| 0501-0009 / 953338 | Exterior dash coat | 0.05% | 29% organic<br>21% acid soluble | <0.1% chrysotile |
| 0501-0010 / 953339 | Exterior dash coat | 0.04% | 31% organic<br>25% acid soluble | <0.1% chrysotile |
| 0501-0012 / 953341 | Exterior dash coat | 0.05% | 28% organic<br>22% acid soluble | 0.15% chrysotile |
| 0501-0016 / 953345 | Exterior dash coat | 0.05% | 20% organic<br>25% acid soluble | <0.1% chrysotile |
| 0501-0017 / 953346 | Exterior dash coat | 0.05% | 15% organic<br>35% acid soluble | <0.1% chrysotile |
| 0501-0018 / 953347 | Exterior dash coat | 0.05% | 22% organic<br>24% acid soluble | <0.1% chrysotile |
| 0501-0019 / 953348 | Exterior dash coat | 0.05% | 25% organic<br>28% acid soluble | <0.1% chrysotile |
| 0501-0020 / 953349 | Exterior dash coat | 0.05% | 32% organic<br>17% acid soluble | <0.1% chrysotile |

Microscopist - Humberto Espinoza

The analyses of the samples in this report were performed using gravimetric matrix reduction and polarized light microscopy (PLM) in accordance with the EPA method 600/R-93/116 July 1993. The asbestos concentration was determined using the semi-quantitative point count method. On a per sample basis, the accuracy and precision of point count results are not known. The result should lie within the statistical limits of variability calculated for standard reference samples routinely analyzed in the laboratory using the point count method. The limit of detection for this analytical method is 0.25 percent using 400 points and 0.10 percent using 1000 points (visual area estimates).

Hygeia recommends trasmission electron microscopy (TEM) analysis on organically bound bulk materials (eg., vinyl floor tile, mastics, roofing materials, joint compounds) when PLM analysis shows undetectable quantities of asbestos. These materials often contain milled asbestos with fiber diameters and lengths too small to be resolved by the PLM and the analysis may yield a false negative result.

Hygeia Laboratories Inc. is accredited under the NIST/NVLAP program for asbestos in bulk material by polarized light microscopy and the State of California for asbestos analysis.

Hygeia Laboratories Inc. and its personnel shall not be liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretation of information supplied by us. Liability shall extend to providing replicate analyses only. This report must not be used to claim product endorsement by NVLAP or any agency of the US Government. Hygeia will retain samples for a period of three months unless otherwise specified. This report relates only to samples submitted and analyzed. This report may not be reproduced except for in full, without the written approval of this laboratory.

Please feel free to contact Hygiea regarding any questions about these results, this report, or the analytical methods employed.

Arturo Casas - Supervisor of Optical Microscopy

Hygeia Laboratories Inc.
82 W. Sierra Madre Blvd
Sierra Madre, CA 91024-2434
(626) 355-4711 (626) 355-4497 Fax

NIST / NVLAP Lab Code No. 102116-0
California ELAP Certificate No. 1269
New York ELAP Certificate No. 11017

Report Revised 1/17/05

# Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116 Point Count - 1000 Points

January 13, 20

Mr. Carlos Galdamez
ATC Arcadia
50 East Foothill Blvd.
Arcadia, CA 91006

Samples Analyzed: 9
Sampler: C. Galdamez

Hygeia Reference No.: 00052 05 0024
Date Collected: December 29, 2005
Date Received: January 7, 2005
Date Analyzed: January 11, 2005

**Client Reference: Task 2 52.25750.0030 LAUSD - San Pedro HS (Exterior Painting)**

| Client Sample ID / Hygeia Sample ID | Sample Description / *Comments* | Detection Limit | Gravimetric Reduction | Analytical Results |
|---|---|---|---|---|
| **0501-0021** 953350 | Exterior dash coat | 0.04% | 33% organic<br>23% acid soluble | <0.1% chrysotile |
| **0501-0022** 953351 | Exterior dash coat | 0.05% | 32% organic<br>22% acid soluble | <0.1% chrysotile |
| **0501-0026** 953352 | Exterior dash coat | 0.05% | 29% organic<br>26% acid soluble | <0.1% chrysotile |
| **0501-0027** 953353 | Exterior dash coat | 0.04% | 26% organic<br>29% acid soluble | <0.1% chrysotile |
| **0501-0028** 953354 | Exterior dash coat | 0.05% | 19% organic<br>35% acid soluble | <0.1% chrysotile |
| **0501-0029** 953355 | Exterior dash coat | 0.05% | 25% organic<br>22% acid soluble | <0.1% chrysotile |
| **0501-0030** 953356 | Exterior dash coat | 0.05% | 25% organic<br>25% acid soluble | <0.1% chrysotile |
| **0501-0031** 953357 | Exterior dash coat | 0.05% | 21% organic<br>27% acid soluble | <0.1% chrysotile |
| **0501-0032** 953358 | Exterior dash coat | 0.06% | 20% organic<br>24% acid soluble | <0.1% chrysotile |

Microscopist - Humberto Espinoza

Microscopist - Sojean Peou

The analyses of the samples in this report were performed using gravimetric matrix reduction and polarized light microscopy (PLM) in accordance with the EPA method 600/R-93/116 July 1993. The asbestos concentration was determined using the semi-quantitative point count method. On a per sample basis, the accuracy and precision of point count results are not known. The result should lie within the statistical limits of variability calculated for standard reference samples routinely analyzed in the laboratory using the point count method. The limit of detection for this analytical method is 0.25 percent using 400 points and 0.10 percent using 1000 points (visual area estimates).

Hygeia recommends trasmission electron microscopy (TEM) analysis on organically bound bulk materials (eg., vinyl floor tile, mastics, roofing materials, joint compounds) when PLM analysis shows undetectable quantities of asbestos. These materials often contain milled asbestos with fiber diameters and lengths too small to be resolved by the PLM and the analysis may yield a false negative result.

Hygeia Laboratories Inc. is accredited under the NIST/NVLAP program for asbestos in bulk material by polarized light microscopy and the State of California for asbestos analysis.

Hygeia Laboratories Inc. and its personnel shall not be liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretation of information supplied by us. Liability shall extend to providing replicate analyses only. This report must not be used to claim product endorsement by NVLAP or any agency of the US Government. Hygeia will retain samples for a period of three months unless otherwise specified. This report relates only to samples submitted and analyzed. This report may not be reproduced except for in full, without the written approval of this laboratory.

Please feel free to contact Hygiea regarding any questions about these results, this report, or the analytical methods employed.

Arturo Casas - Supervisor of Optical Microscopy

# LOS ANGELES UNIFIED SCHOOL DISTRICT
## OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

1763

SITE NAME: San Pedro High School  CODE: 8850  PROJECT: Exterior Painting

SAMPLED BY: Carlos A. Galdamez  DATE SAMPLED: 12/29/2004  DEPT / CONSULTANT: ATC Associates Inc.  TEL. NO: 0/447-521

Fill in all information legibly and precisely. Sampler should make a copy before submitting samples to the lab. USE BLACK/BLUE INK ONLY
Original to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 0501-0033 | 25 | x1007m | 2/3 Unit Reloc. | Ext. Windows | NE | Window Putty | YES / (NO) |
| 0501-0034 | 26 | ↓ | ↓ | ↓ | E/CENTER | ↓ | YES / (NO) |
| 0501-0035 | 27 | ↓ | ↓ | ↓ | SE | ↓ | YES / (NO) |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |

| DATE: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA (CONSULTANT): | NO. OF SAMPLE |
|---|---|---|---|---|
| 1-9-05 | 11:05 Am | Carlos Galdamez | ATC | 3 |
| 1-3-05 | 11:05 am | M-Martinez / | OEHS | 3 |
| | | | | |
| | | | | |

Bond Funded: (Yes) No
Type of Bond: BB
Job Cost #: 97.01463

Other Than Bond Describe
Maintenance & Operations:
Deferred Maintenance:
Other:

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

NVLAP LAB# 10
Method EPA/600/R-93/116(MOD) Jul
Date Received: 01/0



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2005010033 | LN | 01/04/2005 | X1007M : 2/3 UNIT RELOC. EXTER. WINDOW NE | NON-HOMOGENEOUS; NON-FRIABLE; WHITE; PUTTY; GRANULAR | 2 | 0 | 0 | 0 | 0 | 0 | 2 | CARBONATES, PAINT |
| 2005010034 | LN | 01/04/2005 | X1007M : 2/3 UNIT RELOC. EXTER. WINDOW EAST/CTR | NON-HOMOGENEOUS; NON-FRIABLE; BLUE; PUTTY; GRANULAR | 2 | 0 | 0 | 0 | 0 | 0 | 2 | CARBONATES, PAINT |
| 2005010035 | LN | 01/04/2005 | X1007M : 2/3 UNIT RELOC. EXTER. WINDOW SE | NON-HOMOGENEOUS; NON-FRIABLE; WHITE; PUTTY; CHALKY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | CARBONATES, PAINT |

Lab Supervisior Signature and Date: Sebastian 1/6/05

Signature of Analyst: L. Nobe

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
"Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
An asterisk (*) indicates preliminary results

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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

17946

SITE NAME: San Pedro High School  CODE: 8850  PROJECT: Exterior Painting Additional Samples

SAMPLED BY: C. Stewart  DATE SAMPLED: 2/5/05  DEPT. / CONSULTANT: ATC Associates Inc.  TEL. NO: 6/447-5216

Print all information legibly and precisely. Sampler should make a copy before submitting samples to the lab: USE BLACK/BLUE INK ONLY
Original to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 0502-0859 | 28 | 001CBJ | Industrial Arts | Exterior | Northeast Corner | Dash Coat | YES / (NO) |
| 0502-0860 | 29 | ↓ | ↓ | ↓ | North Center | ↓ | YES / (NO) |
| 0502-0861 | 30 | ↓ | ↓ | ↓ | Southwest Corner | ↓ | YES / (NO) |
| 0502-0862 | 31 | ↓ | ↓ | ↓ | South | ↓ | YES / (NO) |
| 0502-0863 | 32 | ↓ | ↓ | ↓ | ↓ | ↓ | YES / (NO) |
| 0502-0864 | 33 | ↓ | ↓ | ↓ | Southeast Corner | ↓ | YES / (NO) |
| 0502-0865 | 34 | ↓ | ↓ | ↓ | East Corner | ↓ | YES / (NO) |
| 0502-0866 | 35 | ↓ | ↓ | ↓ | North | Stucco Wall | YES / (NO) |
| 0502-0867 | 36 | ↓ | ↓ | ↓ | Northwest Corner | ↓ ↓ | YES / (NO) |
| 0502-0868 | 37 | ↓ | ↓ | ↓ | West | ↓ ↓ | YES / (NO) |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |

| DATE: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / (CONSULTANT) | NO. OF SAMPLES |
|---|---|---|---|---|
| 2/8/05 | 2:35pm | C. Stewart /C Stewart | ATC | 10 |
| 2-8-05 | 3p | H. Hartnez / HH | OEHS | 10 |
| | | | | |
| | | | | |

(Yes) / No  Other Than Bond Describe

Type of Bond: BB  Maintenance & Operations:

Project Cost #: 97.01463  Deferred Maintenance:

Other:

OK AT CNT 2/16/05 RH

both sample submittal - 041006.doc

FEB 15 2005 12:53 HP LASERJET 3200
FEB-14-2005 10:30
P.4

# OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY
# CHAIN-OF-CUSTODY FOR BULK ANALYSIS

17. Pb

E NAME: San Pedro High School  CODE: 8850  PROJECT: Exterior Painting Additional Samples

PLED BY: C. Stewart  DATE SAMPLED: 2/5/05  DEPT. / CONSULTANT: ATC Associates Inc.  TEL. NO: 6/447-5216

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al to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB JMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 02-0859 | 28 | 001CBJ | Industrial Arts | Exterior | Northeast Corner | Dash Coat | YES / (NO) |
| 02-0860 | 29 | ↓ | ↓ | ↓ | North Center | ↓ | YES / (NO) |
| 02-0861 | 30 | ↓ | ↓ | ↓ | Southwest Corner | ↓ | YES / (NO) |
| 02-0862 | 31 | ↓ | ↓ | ↓ | South | ↓ | YES / (NO) |
| 02-0863 | 32 | ↓ | ↓ | ↓ | ↓ | ↓ | YES / (NO) |
| 02-0864 | 33 | ↓ | ↓ | ↓ | Southeast Corner | ↓ | YES / (NO) |
| 502-0865 | 34 | ↓ | ↓ | ↓ | East Corner | ↓ | YES / (NO) |
| 502-0866 | 35 | ↓ | ↓ | ↓ | North | Stucco Wall | YES / (NO) |
| 502-0867 | 36 | ↓ | ↓ | ↓ | Northwest Corner | ↓ ↓ | YES / (NO) |
| 02-0868 | 37 | ↓ | ↓ | ↓ | West | ↓ ↓ | YES / (NO) |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |

| E: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / (CONSULTANT) | NO. OF SAMPLES |
|---|---|---|---|---|
| 3/05 | 2:35 pm | C. Stewart / CStewart | ATC | 10 |
| 2-8-05 | 3p | H- Martner / HM | OEHS | 10 |
| | | | | |
| | | | | |

d Funded (Yes) / No
e of Bond: BB
Cost #: 97.01463

Other Than Bond Describe
Maintenance & Operations:
Deferred Maintenance:
Other:

s Angeles Unified School District
lice of Environmental Health and Safety
49 S. San Pedro
s Angeles, CA 90[illegible]
13) 745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO
8850

NVLAP AB# 101505-0
Method EPA/600/R-93/116 (OD) July 1993
Date Received: 02/08/2005



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2005020859 | ST | 02/10/2005 | 001CBJ : INDUSTRIAL ARTS<br>EXTERIOR<br>NE CORNER | HOMOGENEOUS;<br>NON-FRIABLE;<br>LITE BROWN/ PINK/ YELLOW;<br>DASHCOAT;<br>CEMENTITIOUS | 1 | 0 | 0 | 0 | 0 | 0 | 1 | BINDER, CARBONATES, PAINT, QUARTZ, ROCK, SAND |
| 2005020860 | ST | 02/10/2005 | 001CBJ : INDUSTRIAL ARTS<br>EXTERIOR<br>NO/CTR | HOMOGENEOUS;<br>NON-FRIABLE;<br>PINK/ WHITE;<br>DASHCOAT;<br>CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, CARBONATES, PAINT, QUARTZ, ROCK, SAND COMMENT(S): DIFFERENT FROM THE REST OF DASHCOAT SAMPLES ON THIS C.O.C. |
| 2005020861 | ST | 02/10/2005 | 001CBJ : INDUSTRIAL ARTS<br>EXTERIOR<br>SW CORNER | HOMOGENEOUS;<br>NON-FRIABLE;<br>LITE BROWN/ PINK/ YELLOW;<br>DASHCOAT;<br>CEMENTITIOUS | 1 | 0 | 0 | 0 | 0 | 0 | 1 | BINDER, CARBONATES, PAINT, QUARTZ, ROCK, SAND |
| 2005020862 | ST | 02/10/2005 | 001CBJ : INDUSTRIAL ARTS<br>EXTERIOR<br>SOUTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>LITE BROWN/ PINK/ YELLOW;<br>DASHCOAT;<br>CEMENTITIOUS | 1 | 0 | 0 | 0 | 0 | 0 | 1 | BINDER, CARBONATES, PAINT, QUARTZ, ROCK, SAND |
| 2005020863 | ST | 02/10/2005 | 001CBJ : INDUSTRIAL ARTS<br>EXTERIOR<br>SOUTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>LITE BROWN/ PINK/ YELLOW;<br>DASHCOAT;<br>CEMENTITIOUS | 1 | 0 | 0 | 0 | 0 | 0 | 1 | BINDER, CARBONATES, PAINT, QUARTZ, ROCK, SAND |
| 2005020864 | ST | 02/10/2005 | 001CBJ : INDUSTRIAL ARTS<br>EXTERIOR<br>SE CORNER | HOMOGENEOUS;<br>NON-FRIABLE;<br>LITE BROWN/ PINK/ YELLOW;<br>DASHCOAT;<br>CEMENTITIOUS | 1 | 0 | 0 | 0 | 0 | 0 | 1 | BINDER, CARBONATES, PAINT, QUARTZ, ROCK, SAND |
| 2005020865 | ST | 02/10/2005 | 001CBJ : INDUSTRIAL ARTS<br>EXTERIOR<br>EAST CORNER | HOMOGENEOUS;<br>NON-FRIABLE;<br>LITE BROWN/ PINK/ YELLOW;<br>DASHCOAT;<br>CEMENTITIOUS | 1 | 0 | 0 | 0 | 0 | 0 | 1 | BINDER, CARBONATES, PAINT, QUARTZ, ROCK, SAND |
| 2005020866 | ST | 02/10/2005 | 001CBJ : INDUSTRIAL ARTS<br>EXTERIOR<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>LITE BROWN/ PINK/ YELLOW;<br>STUCCO;<br>CEMENTITIOUS | 1 | 0 | 0 | 0 | 0 | 0 | 1 | BINDER, CARBONATES, PAINT, QUARTZ, ROCK, SAND |
| 2005020867 | ST | 02/10/2005 | 001CBJ : INDUSTRIAL ARTS<br>EXTERIOR<br>NW CORNER | HOMOGENEOUS;<br>NON-FRIABLE;<br>LITE BROWN/ PINK/ YELLOW;<br>STUCCO;<br>CEMENTITIOUS | 1 | 0 | 0 | 0 | 0 | 0 | 1 | BINDER, CARBONATES, PAINT, QUARTZ, ROCK, SAND |

Lab Supervisior Signature and Date: [signature] 2/14/05 Signature of Analyst:

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %.
"Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government.
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os Angeles Unified School District
)ffice of Enviro al Health and Safety
449 S. San Pedr
os Angeles, CA 90015
213) 745-1138

**Asbestos Bulk Sa Analysis**
**Laboratory port**
SAN PED S
8850

NV AB# 101505-0
Method EPA/600/R-93/1 OD) July 1993
Date R ved: 02/08/2005



| AUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 005020868 | ST | 02/10/2005 | 001CBJ : INDUSTRIAL ARTS EXTERIOR WEST | HOMOGENEOUS; NON-FRIABLE; LITE BROWN/ PINK/ YELLOW; STUCCO; CEMENTITIOUS | 1 | 0 | 0 | 0 | 0 | 0 | 1 | BINDER, CARBONATES, PAINT, QUARTZ, ROCK, SAND |

Lab Supervisior Signature and Date: 2/14/05 Signature of Analyst:

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
"Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This re elates to only the material tested. An asterisk '*' indicates preliminary results.

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Hygeia Laboratories Inc.
82 W. Sierra Madre Blvd
Sierra Madre, CA 91024-2434
(626) 355-4711 (626) 355-4497 Fax

NIST / NVLAP Lab Code No. 102116-0
California ELAP Certificate No. 1269
New York ELAP Certificate No. 11017

# Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116 Point Count - 1000 Points

February 23, 2005

Mr. Carlos Galdamez
ATC Arcadia
50 East Foothill Blvd.
Arcadia, CA 91006

Samples Analyzed: 9
Sampler: C. Stewart

Hygeia Reference No.: 00052 05 0117
Date Collected: February 5, 2005
Date Received: February 18, 2005
Date Analyzed: February 23, 2005

**Client Reference: Task 2 52.25750.0030 San Pedro High School**

| Client Sample ID / Hygeia Sample ID | Sample Description / *Comments* | Detection Limit | Gravimetric Reduction | Analytical Results |
|---|---|---|---|---|
| **0502 - 0859** 958443 | Dash coat | 0.06% | 20% organic 19% acid soluble | <0.1% chrysotile |
| **0502 - 0861** 958445 | Dash coat | 0.06% | 15% organic 28% acid soluble | <0.1% chrysotile |
| **0502 - 0862** 958446 | Dash coat | 0.05% | 10% organic 38% acid soluble | <0.1% chrysotile |
| **0502 - 0863** 958447 | Dash coat | 0.06% | 10% organic 31% acid soluble | <0.1% chrysotile |
| **0502 - 0864** 958448 | Dash coat | 0.06% | 16% organic 27% acid soluble | <0.1% chrysotile |
| **0502 - 0865** 958449 | Dash coat | 0.05% | 22% organic 30% acid soluble | <0.1% chrysotile |
| **0502 - 0866** 958450 | Stucco wall | 0.05% | 11% organic 41% acid soluble | <0.1% chrysotile |
| **0502 - 0867** 958451 | Stucco wall | 0.04% | 14% organic 43% acid soluble | <0.1% chrysotile |
| **0502 - 0868** 958452 | Stucco wall | 0.05% | 8% organic 42% acid soluble | <0.1% chrysotile |

Microscopist - Sojean Peou

The analyses of the samples in this report were performed using gravimetric matrix reduction and polarized light microscopy (PLM) in accordance with the EPA method 600/R-93/116 July 1993. The asbestos concentration was determined using the semi-quantitative point count method. On a per sample basis, the accuracy and precision of point count results are not known. The result should lie within the statistical limits of variability calculated for standard reference samples routinely analyzed in the laboratory using the point count method. The limit of detection for this analytical method is 0.25 percent using 400 points and 0.10 percent using 1000 points (visual area estimates).

Hygeia recommends trasmission electron microscopy (TEM) analysis on organically bound bulk materials (eg., vinyl floor tile, mastics, roofing materials, joint compounds) when PLM analysis shows undetectable quantities of asbestos. These materials often contain milled asbestos with fiber diameters and lengths too small to be resolved by the PLM and the analysis may yield a false negative result.

Hygeia Laboratories Inc. is accredited under the NIST/NVLAP program for asbestos in bulk material by polarized light microscopy and the State of California for asbestos analysis.

Hygeia Laboratories Inc. and its personnel shall not be liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretation of information supplied by us. Liability shall extend to providing replicate analyses only. This report must not be used to claim product endorsement by NVLAP or any agency of the US Government. Hygeia will retain samples for a period of three months unless otherwise specified. This report relates only to samples submitted and analyzed. This report may not be reproduced except for in full, without the written approval of this laboratory.

Please feel free to contact Hygiea regarding any questions about these results, this report, or the analytical methods employed.

Arturo Casas - Supervisor of Optical Microscopy

LOS ANGELES UNIFIED SCHOOL DISTRICT

# OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY
# CHAIN-OF-CUSTODY FOR BULK ANALYSIS

18946

SITE NAME: SAN PEDRO HIGH SCHOOL CODE: 8850 PROJECT: AHERA

SAMPLED BY: JESUS C. CARBAJAL DATE SAMPLED: 6/9/2005 DEPT. / CONSULTANT: LAUSD / ATU TEL. NO: 745-1450

Print all information legibly and precisely. Sampler should make a copy before submitting samples to the lab. USE BLACK/BLUE INK ONLY
Original to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 0506-0360 | 1 | 004BDJ | ADMIN/CLASS.. | ROOM 205 | SOUTH/WEST | BROWN FLOOR SHEETING | YES / (NO) |
| 0506-0361 | 2 | 004BDJ | ADMIN/CLASS.. | ROOM 205 | NORTH/WEST | BROWN FLOOR SHEETING | YES / (NO) |
| 0506-0362 | 3 | 004BDJ | ADMIN/CLASS.. | ROOM 205 | NORTH/EAST | BROWN FLOOR SHEETING | YES / (NO) |
| 0506-0363 | 4 | 001CBJ | IND. ARTS | ROOM 161 | NORTH/CENTER | BLACK MASTIC ON WOOD FLOOR BLOCKS | YES / (NO) |
| | | ↓ | ↓ | ↓ | ↓ | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |

| TE: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | NO. OF SAMPLES |
|---|---|---|---|---|
| 2005 | 11:00 AM | JESUS C. CARBAJAL | LAUSD / ATU | (4) |
| 10-05 | 7:00 AM | GLENN BARROW | ATU/19 | 4 |
| .10.05 | 8 AM | Lara Comez | OEHS | 4 |
| | | | | |

Bond Funded: Yes (No)
Type of Bond:
Cost #:

Other Than Bond Describe
Maintenance & Operations:
Deferred Maintenance:
Other: AHERA

bulk sample submittal. 8/10/04. GG

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report
SAN PEDRO HS
8850

LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 06/10/2005



| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2005060360-A | NLI | 06/13/2005 | 004BDJ : ADMIN/CLSS.<br>ROOM 205<br>SOUTH WEST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BROWN;<br>FLOOR SHEETING;<br>FIBROUS/BOARD | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE<br>BINDER, PIGMENT |
| 2005060360-B | NLI | 06/13/2005 | 004BDJ : ADMIN/CLSS.<br>ROOM 205<br>SOUTH WEST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BROWN;<br>UNDER LAYMENT;<br>WOVEN FABRIC | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60% CELLULOSE<br>ADHESIVE, DEBRIS,<br>ORG.MATERIAL |
| 2005060361-A | NLI | 06/13/2005 | 004BDJ : ADMIN/CLSS.<br>ROOM 205<br>NORTH WEST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BROWN;<br>FLOOR SHEETING;<br>FIBROUS/BOARD | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE<br>BINDER, PIGMENT |
| 2005060361-B | NLI | 06/13/2005 | 004BDJ : ADMIN/CLSS.<br>ROOM 205<br>NORTH WEST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BROWN;<br>UNDER LAYMENT;<br>WOVEN FABRIC | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60% CELLULOSE<br>ADHESIVE, DEBRIS,<br>ORG.MATERIAL |
| 2005060362-A | NLI | 06/13/2005 | 004BDJ : ADMIN/CLSS.<br>ROOM 205<br>NORTH EAST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BROWN;<br>FLOOR SHEETING;<br>FIBROUS/BOARD | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE<br>BINDER, PIGMENT |
| 2005060362-B | NLI | 06/13/2005 | 004BDJ : ADMIN/CLSS.<br>ROOM 205<br>NORTH EAST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BROWN;<br>UNDER LAYMENT;<br>WOVEN FABRIC | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60% CELLULOSE<br>ADHESIVE, DEBRIS,<br>ORG.MATERIAL |
| 2005060363 | NLI | 06/13/2005 | 001CBJ : IND. ARTS<br>ROOM 161<br>NORTH CENTER | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>WOOD/RESIN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE<br>TAR |

Lab Supervisior Signature and Date: _____ 6/13/05

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; < 1 %: Asbestos Detected Above 0% and Below or Equal to 1 %
"Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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LOS ANGELES UNIFIED SCHOOL DISTRICT
OFFICE OF ENVIRONMEI HEALTH AND SAFETY
CHAIN-OF-CUSTODY FOR BULK ANALYSIS

21693

NAME: San Pedro H. S. CODE: 8850 PROJECT: Fire Alarm Upgrade

'LED BY: Eduardo Guerrero DEPT / CONSULTANT: ACC TEL. NO.: (213) 353-1240 DATE SAMPLED: 1/20/06

all information legibly and precisely. Sampler should make a copy before submitting samples to the lab. USE BLACK/BLUE INK ONLY.
al to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB MBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 2-0720 | 49 | X0830M | 2/3 Unit Reloc | B-22 | E | Ceiling Vapor Barrier | (YES) NO |
| 2-0721 | 50 | ↓ | ↓ | B-22 | NofCtr. | ↓ | (YES) NO |
| 2-0722 | 51 | ↓ | ↓ | B-23 | N | ↓ | (YES) NO |
| 02-0723 | 52 | A0594N | Std: Class. Reloc. | B-21 | EG NE S | Ceiling Vapor Barrier | (YES) NO |
| 2-0724 | 53 | ↓ | ↓ | ↓ | EG S NE | ↓ | (YES) NO |
| 2-0725 | 54 | ↓ | ↓ | ↓ | E | ↓ | (YES) NO |
| 02-0726 | 55 | X1276M | 2/3 Unit Reloc. | B-40 | S | Ceiling Vapor Barrier | (YES) NO |
| 02-0727 | 56 | ↓ | ↓ | B-40 | SW | ↓ | (YES) NO |
| -0728 | 57 | ↓ | ↓ | B-41 | NE | ↓ | (YES) NO |
| 2-0729 | 58 | X1007M | ↓ | B1 | E | Ceiling Vapor Barrier | (YES) NO |
| 2-0730 | 59 | ↓ | ↓ | B1 | N | ↓ | (YES) NO |
| 02-0731 | 60 | ↓ | ↓ | B2 | S | ↓ | (YES) NO |

| | TIME: | NAME (PRINT & SIGN): | DEPT/AREA/CONSULTANT: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 2/1/06 | 11:AM | Eduardo Guerrero | ACC | 12 |
| 3/06 | 3:45p | Gretchen Anderson | OEHS | 12 |
| | | | | |
| | | | | |

Bond Funded (Yes) No
Type of Bond:
Job Cost #: 23.03653

Other Than Bond Describe
Maintenance & Operations:
Deferred Maintenance:
Other:

Angeles Unified ol District
e of Environmental Health and Safety
S. San Pedro St.
Angeles, CA 90015
745-1138

**Asbestos Bulk Sa Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLA # 101505-0
Method EPA/600/R-93/116( ) July 1993
Date Received: 02/03/2006



| SD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 020720 | EZM | 02/08/2006 | X0830M : 2/3 UNIT RELOC.<br>B-22<br>EAST | HOMOGENEOUS;<br>FRIABLE;<br>BROWN;<br>VAPOR BARRIER;<br>PAPER WITH TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95% CELLULOSE, 2%<br>FIBERGLASS<br>TAR |
| 020721 | EZM | 02/08/2006 | X0830M : 2/3 UNIT RELOC.<br>B-22<br>NO. OF CTR. | HOMOGENEOUS;<br>FRIABLE;<br>BROWN;<br>VAPOR BARRIER;<br>PAPER WITH TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95% CELLULOSE, 2%<br>FIBERGLASS<br>TAR |
| 020722 | EZM | 02/08/2006 | X0830M : 2/3 UNIT RELOC.<br>B-23<br>NORTH | HOMOGENEOUS;<br>FRIABLE;<br>BROWN;<br>VAPOR BARRIER;<br>PAPER WITH TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95% CELLULOSE, 2%<br>FIBERGLASS<br>TAR |
| 6020723 | EZM | 02/08/2006 | A0594N : STD. CLSRM.<br>RELOC.<br>B-21<br>SOUTH | HOMOGENEOUS;<br>FRIABLE;<br>BROWN;<br>VAPOR BARRIER;<br>PAPER WITH TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95% CELLULOSE<br>TAR |
| 6020724 | EZM | 02/08/2006 | A0594N : STD. CLSRM.<br>RELOC.<br>B-21<br>NE | HOMOGENEOUS;<br>FRIABLE;<br>BROWN;<br>VAPOR BARRIER;<br>PAPER WITH TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95% CELLULOSE<br>TAR |
| 06020725 | EZM | 02/08/2006 | A0594N : STD. CLSRM.<br>RELOC.<br>B-21<br>EAST | HOMOGENEOUS;<br>FRIABLE;<br>BROWN;<br>VAPOR BARRIER;<br>PAPER WITH TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95% CELLULOSE<br>TAR |
| 06020726 | EZM | 02/08/2006 | X1276M : 2/3 UNIT RELOC.<br>B-40<br>SOUTH | HOMOGENEOUS;<br>FRIABLE;<br>BROWN;<br>VAPOR BARRIER;<br>PAPER WITH TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95% CELLULOSE<br>TAR |
| 06020727 | EZM | 02/08/2006 | X1276M : 2/3 UNIT RELOC.<br>B-40<br>SW | HOMOGENEOUS;<br>FRIABLE;<br>BROWN;<br>VAPOR BARRIER;<br>PAPER WITH TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95% CELLULOSE<br>TAR |
| 06020728 | EZM | 02/08/2006 | X1276M : 2/3 UNIT RELOC.<br>B-41<br>NE | HOMOGENEOUS;<br>FRIABLE;<br>BROWN;<br>VAPOR BARRIER;<br>PAPER WITH TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95% CELLULOSE<br>TAR |

ab Supervisor Signature and Date: Sebastian 2/9/06

Signature of Analyst: _____

ote: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
"Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government.
This report may not be reproduced except in its entirety.

Angeles Unifi[illegible]ool District
e of Environmental Health and Safety
S. San Pedro St.
Angeles, CA 90015
)745-1138

**Asbestos Bulk S[illegible] Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLA [illegible]3# 101505-0
Method EPA/600/R-93/116, [illegible]0) July 1993
Date Received: 02/03/2006



| JSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5020729 | EZM | 02/08/2006 | X1007M : 2/3 UNIT RELOC.<br>B-1<br>EAST | HOMOGENEOUS;<br>FRIABLE;<br>BROWN;<br>VAPOR BARRIER;<br>PAPER WITH TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90% CELLULOSE, 5%<br>FIBERGLASS<br>TAR |
| 6020730 | EZM | 02/08/2006 | X1007M : 2/3 UNIT RELOC.<br>B-1<br>NORTH | HOMOGENEOUS;<br>FRIABLE;<br>BROWN;<br>VAPOR BARRIER;<br>PAPER WITH TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90% CELLULOSE, 5%<br>FIBERGLASS<br>TAR |
| 6020731 | EZM | 02/08/2006 | X1007M : 2/3 UNIT RELOC.<br>B-2<br>SOUTH | HOMOGENEOUS;<br>FRIABLE;<br>BROWN;<br>VAPOR BARRIER;<br>PAPER WITH TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90% CELLULOSE, 5%<br>FIBERGLASS<br>TAR |

Lab Supervisor Signature and Date: [signature] 2/9/06

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
"Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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LOS ANGELES UNIFIED SCHOOL DISTRICT
OFFICE OF ENVIRONMEI HEALTH AND SAFETY
CHAIN-OF-CUSTODY FOR BULK ANALYSIS

NAME: San Pedro H.S. CODE: 8850 PROJECT: Fire Alarm Upgrade 21694

LED BY: Eduardo Guerrero DEPT / CONSULTANT: ACC TEL. NO.: (213) 353-1240 DATE SAMPLED: 1/20/06

ll information legibly and precisely. Sampler should make a copy before submitting samples to the lab. USE BLACK/BLUE INK ONLY.
l to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| -0732 | 61 | X1007M | 2/3 Unit Relo. | B1 | E | ROOFING DEBRIS | (YES) NO |
| 2-0733 | 62 | ↓ | ↓ | B1 | N | ↓ | (YES) NO |
| 12-0734 | 63 | ↓ | ↓ | B2 | S | ↓ | (YES) NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

| | TIME: | NAME (PRINT & SIGN): | DEPT/AREA/CONSULTANT: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 1/06 | 11:AM | Eduardo Guerrero | ACC | 3 |
| /06 | 3:45 pm | Greta Carbonetti | OEHS | 3 |
| | | | | |
| | | | | |

Bond Funded (Yes) No
Type of Bond:
Job Cost #: 23.03653

Other Than Bond Describe
Maintenance & Operations:
Deferred Maintenance:
Other:

: Angeles Unifie ool District
ice of Environmental Health and Safety
)9 S. San Pedro St.
: Angeles, CA 90015
3)745-1138

**Asbestos Bulk S Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLA 3# 101505-0
Method EPA/600/R-93/116, D) July 1993
Date Received: 02/03/2006



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06020732 | EZM | 02/08/2006 | X1007M : 2/3 UNIT RELOC.<br>B-1<br>EAST | HOMOGENEOUS;<br>FRIABLE;<br>BEIGE;<br>ROOFING;<br>DEBRIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | CALCITE, DEBRIS, ROCK, TAR |
| 06020733 | EZM | 02/08/2006 | X1007M : 2/3 UNIT RELOC.<br>B-1<br>NORTH | HOMOGENEOUS;<br>FRIABLE;<br>BEIGE;<br>ROOFING;<br>DEBRIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | CALCITE, DEBRIS, ROCK, TAR |
| 06020734 | EZM | 02/08/2006 | X1007M : 2/3 UNIT RELOC.<br>B-2<br>SOUTH | HOMOGENEOUS;<br>FRIABLE;<br>BEIGE;<br>ROOFING;<br>DEBRIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | CALCITE, DEBRIS, ROCK, TAR |

Lab Supervisor Signature and Date: 2/9/06

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
"Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government.
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LOS ANGELES UNIFIED SCHOOL DISTRICT

# OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY

## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

217547

SITE NAME: San Pedro High School CODE: 8850 PROJECT: Fire Alarm & Safety

SAMPLED BY: Eduardo Guerrero DEPT / CONSULTANT: ACC- TEL. NO.: (213) 353-1240 DATE SAMPLED: 1/20/06

Fill in all information legibly and precisely. Sampler should make a copy before submitting samples to the lab. USE BLACK/BLUE INK ONLY.
Original to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 0602-1281 | 64 | X2384P | 2/3 Unit Reloc. | Exterior | N | stucco | YES (NO) |
| 0602-1282 | 65 | ↓ | ↓ | ↓ | NE | ↓ | YES (NO) |
| 0602-1283 | 66 | ↓ | ↓ | ↓ | W | ↓ | YES (NO) |
| 0602-1284 | 67 | 002 BAJ | Auditorium Bldg | Lobby | NE | smooth ceiling plaster | YES (NO) |
| 0602-1285 | 68 | ↓ | ↓ | ↓ | NE adj. | ↓ | YES (NO) |
| 0602-1286 | 69 | ↓ | ↓ | ↓ | HRSW | ↓ | YES (NO) |
| 0602-1287 | 70 | ↓ | ↓ | Seating Area | NE | ↓ | YES (NO) |
| 0602-1288 | 71 | ↓ | ↓ | ↓ | NW | ↓ | YES (NO) |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

| DATE: | TIME: | NAME (PRINT & SIGN): | DEPT/AREA/CONSULTANT: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 2/7/06 | 11:AM | Eduardo Guerrero | ACC | 8 |
| 2/7/06 | 2:30 PM | GLENN GUTIERREZ | ACC | 8 |
| 2-7-06 | 2:35 P | M. Martinez | OEHS | 8 |
| | | | | |

Bond Funded: (Yes) No

Type of Bond: _____

Job Cost #: 23.031653

Other Than Bond Describe

Maintenance & Operations: _____

Deferred Maintenance: _____

Other: _____

os Angeles Uni hool District
ffice of Environmental Health and Safety
449 S. San Pedro St.
os Angeles, CA 90015
213)745-1138

**Asbestos Bulk e Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVI AB# 101505-0
Method EPA/600/R-93/1. OD) July 1993
Date Received: 02/07/2006



| AUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 006021281 | NLI | 02/10/2006 | X2384P : 2/3 UNIT RELOC. EXTERIOR NORTH | NON-HOMOGENEOUS; NON-FRIABLE; BEIGE; STUCCO; COATED/ CEMENTITIOUS | <1 | 0 | 0 | 0 | 0 | 0 | <1 | GYPSUM, PAINT, SAND COMMENT(S): VERIFIED BY RC. COMPOSITE ANALYSIS. |
| 006021282 | NLI | 02/10/2006 | X2384P : 2/3 UNIT RELOC. EXTERIOR NE | NON-HOMOGENEOUS; NON-FRIABLE; BEIGE; STUCCO; COATED/ CEMENTITIOUS | <1 | 0 | 0 | 0 | 0 | 0 | <1 | GYPSUM, PAINT, SAND COMMENT(S): COMPOSITE ANALYSIS. |
| 006021283 | NLI | 02/10/2006 | X2384P : 2/3 UNIT RELOC. EXTERIOR WEST | NON-HOMOGENEOUS; NON-FRIABLE; BEIGE; STUCCO; COATED/ CEMENTITIOUS | <1 | 0 | 0 | 0 | 0 | 0 | <1 | GYPSUM, PAINT, SAND COMMENT(S): COMPOSITE ANALYSIS. |
| 006021284 | NLI | 02/10/2006 | 002BAJ : AUDITORIUM BLD. LOBBY NE | NON-HOMOGENEOUS; NON-FRIABLE; WHITE; SMOOTH PLASTER; COATED/ GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <1% CELLULOSE CALCITE, GYPSUM, PAINT, QUARTZ |
| 006021285 | NLI | 02/10/2006 | 002BAJ : AUDITORIUM BLD. LOBBY NE ADJ. | NON-HOMOGENEOUS; NON-FRIABLE; WHITE; SMOOTH PLASTER; COATED/ GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <1% CELLULOSE CALCITE, GYPSUM, PAINT, QUARTZ |
| 006021286 | NLI | 02/10/2006 | 002BAJ : AUDITORIUM BLD. LOBBY SW | NON-HOMOGENEOUS; NON-FRIABLE; WHITE; SMOOTH PLASTER; COATED/ GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <1% CELLULOSE CALCITE, GYPSUM, PAINT, QUARTZ |
| 006021287 | NLI | 02/10/2006 | 002BAJ : AUDITORIUM BLD. SEATING AREA NE | NON-HOMOGENEOUS; NON-FRIABLE; WHITE; SMOOTH PLASTER; COATED/ GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <1% CELLULOSE CALCITE, GYPSUM, PAINT, QUARTZ |
| 006021288 | NLI | 02/10/2006 | 002BAJ : AUDITORIUM BLD. SEATING AREA NW | NON-HOMOGENEOUS; NON-FRIABLE; WHITE; SMOOTH PLASTER; COATED/ GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <1% CELLULOSE CALCITE, GYPSUM, PAINT, QUARTZ |

Lab Supervisor Signature and Date: 2/13/06

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
"Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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# OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY
# CHAIN-OF-CUSTODY FOR BULK ANALYSIS

22521

NAME: Sanleda HS  CODE: 8850  PROJECT: Bond A/C Project

ED BY: S. Purcer  DATE SAMPLED: 3/24/06  DEPT. / CONSULTANT: SEI  TEL. NO: 805-983-6261

information legibly and precisely. Sampler should make a copy before submitting samples to the lab.  USE BLACK/BLUE INK ONLY

o OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| -3414 | 324-1 | 006 CBJ | P.E. Bldg | Roof | East | Layered Roof Cut with Mineralized Cap Sheet | YES / (NO) |
| -3415 | 324-2 | | | | Southwest | | YES / (NO) |
| -3416 | 324-3 | | | | South | | YES / (NO) |
| 3-3417 | 324-4 | | | | North | Penetration Mastic | YES / (NO) |
| 3-3418 | 324-5 | | | | Southwest | | YES / (NO) |
| 3-3419 | 324-6 | | | | East | | YES / (NO) |
| 3-3420 | 324-7 | X23838 | Bungalow Rooms B-10, B-11 | | Southeast | Layered Roof Cut with Mineralized Cap Sheet | YES / (NO) |
| 3-3421 | 324-8 | | | | | Mineral Wool Insulation | (YES) / NO |
| 3-3422 | 324-9 | | | | | Barrier Paper (Roof) with Tar | YES / (NO) |
| -3423 | 324-10 | | | | West | Layered Roof Cut with Mineralized Cap Sheet | YES / (NO) |
| -3424 | 324-11 | | | | | Mineral Wool Insulation | (YES) / NO |
| 3-3425 | 324-12 | | | | | Barrier Paper (Roof) with Tar Paper | YES / (NO) |

| TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | NO. OF SAMPLES |
|---|---|---|---|
| /06 13:30 | Sean Purcer SP | SEI | 12 |
| 06 1:35 | Brenda Davidson Brenda Davidson | OEHS | 12 |

unded (Yes) / No

f Bond:

sl #: 97.00968

Other Than Bond Describe
Maintenance & Operations:
Deferred Maintenance:
Other:

(PM)

Point count 4.12.06

bulk sample submittal, 6/1/04, MS

eles Unified School District
Environmental Health and Safety
San Pedro St.
eles, CA 90015
-1130

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(40CFR) July 1993
Date Received: 03/30/2006



| Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AMI % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3414 | NLI | 04/03/2006 | 006CBJ : P.E. BLDG. ROOF E | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; CAPSHEET; TARLIKE, GRANULAR, COATING | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% CELLULOSE, 5% FIBERGLASS DEBRIS, SAND, TAR |
| 3415 | NLI | 04/03/2006 | 006CBJ : P.E. BLDG. ROOF S.W. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; CAPSHEET; TARLIKE, GRANULAR, COATING | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% CELLULOSE, 5% FIBERGLASS DEBRIS, SAND, TAR |
| 3416 | NLI | 04/03/2006 | 006CBJ : P.E. BLDG. ROOF S. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; CAPSHEET; TARLIKE, GRANULAR, COATING | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% CELLULOSE, 5% FIBERGLASS DEBRIS, SAND, TAR |
| 3417 | NLI | 04/03/2006 | 006CBJ : P.E. BLDG. ROOF N. | NON-HOMOGENEOUS; NON-FRIABLE; GRAY; MASTIC; TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE SAND, TAR COMMENT(S): CONFIRMED BY LN. |
| 3418 | NLI | 04/03/2006 | 006CBJ : P.E. BLDG. ROOF S.W. | NON-HOMOGENEOUS; NON-FRIABLE; GRAY; MASTIC; TARLIKE | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 1% CELLULOSE SAND, TAR COMMENT(S): CONFIRMED BY RC |
| 3419 | NLI | 04/03/2006 | 006CBJ : P.E. BLDG. ROOF E. | NON-HOMOGENEOUS; NON-FRIABLE; GRAY; MASTIC; TARLIKE | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1% CELLULOSE SAND, TAR COMMENT(S): CONFIRMED BY RC |
| 3420 | NLI | 04/03/2006 | X2383P : BUNG. RM. B-10, B-11 ROOF S.E. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; CAPSHEET; TARLIKE, GRANULAR, COATING | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% CELLULOSE, 5% FIBERGLASS DEBRIS, SAND, TAR |
| 3421 | NLI | 04/03/2006 | X2383P : BUNG. RM. B-10, B-11 ROOF S.E. | NON-HOMOGENEOUS; FRIABLE; LITE BROWN; INSULATION; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 85% CELLULOSE, 5% MINERAL WOOL BINDER |

Supervisor Signature and Date: 4/5/06

Signature of Analyst: _____

0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
"Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
An asterisk '*' indicates preliminary results.

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APR-05-2006 16:38 FROM 18059834992 TO 0864283405 P.02/04

eles Unified School District
f Environmental Health and Safety
San Pedro St.
eles, CA 90015
5-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8650

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/30/2006



| Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3422 | NLI | 04/03/2006 | X2383P : BUNG. RM. B-10, B-11 ROOF S.E. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/LITE BROWN; BARRIER PAPER; TAR-LIKE, PAPER | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 10% CELLULOSE, 2% MINERAL WOOL BINDER, TAR COMMENT(S): CONFIRMED BY LN. |
| 3423 | NLI | 04/03/2006 | X2383P : BUNG. RM. B-10, B-11 ROOF W | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; CAPSHEET; TARLIKE, GRANULAR, COATING | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% CELLULOSE, 5% FIBERGLASS DEBRIS, SAND, TAR |
| 3424 | NLI | 04/03/2006 | X2383P : BUNG. RM. B-10, B-11 ROOF W | NON-HOMOGENEOUS; FRIABLE; LITE BROWN; INSULATION; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 85% CELLULOSE, 5% MINERAL WOOL BINDER |
| 3425 | NLI | 04/03/2006 | X2383P : BUNG. RM. B-10, B-11 ROOF W | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/LITE BROWN; BARRIER PAPER; TAR-LIKE, PAPER | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 10% CELLULOSE, 2% MINERAL WOOL BINDER, TAR COMMENT(S): CONFIRMED BY LN. |

Supervisor Signature and Date: [signature] 4/5/06

Signature of Analyst: _____

0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
*Quantification done by optical estimate* 1 - 5 % considered non-quantifiable.
[illegible] indicates preliminary results.

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APR-05-2006 16:39 FROM TO 18059834592 P.03/04

824 W. Sierra Madre Blvd
Sierra Madre, CA 91024
(626) 355-4711
(626) 355-4197 FAX

# Preliminary Analytical Results - by Point Counting X 1000 Pts. ___ 400 Pts.

To: IRA LIND
From: Guillermo Hernandez
Total # of pages: 1

Of: LAUSD / ATC
Date 4-24-06 Time
Urgent! Please deliver as soon as possible.

Client Job # 0603/3418,3419,3422,3425 Hygeia Ref. # 16238 06 0220
San Pedro HS (Bond A/C Project) Original Hygeia Ref #

| Client ID # | Hygeia ID # | Asbestos % Chrysotile | Amosite | Crocidolite | Other | Non Detected | Comments |
|---|---|---|---|---|---|---|---|
| 0603-3418 | 1010 808 | 0.46 | | | | | } Pos |
| 3419 | 809 | | | | | | NOT ANALYZED } |
| 3422 | 810 | <0.1 | | | | | |
| 3425 | 811 | <0.1 | | | | | |

Preliminary results are subject to management review.

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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

22522

SITE NAME: Sanpedro HS  CODE: 8850  PROJECT: Board H/C Project

SAMPLED BY: S. Purcar  DATE SAMPLED: 3/24/06  DEPT. / CONSULTANT: SEI  TEL. NO: 625-983

Fill in all information legibly and precisely. Sampler should make a copy before submitting samples to the lab. Original to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

USE BLACK/BLUE INK ONLY

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 0603-3426 | 324-13 | X2383B | Bungalow Rooms B-10, B-11 | Roof | North | Layered Roof Cut with Mineralized Coat Sheet | YES / (NO) |
| 0603-3427 | 324-14 | | | | | Mineral Wool Insulation | (YES) / NO |
| 0603-3428 | 324-15 | | | | | Barrier Paper (Kraft) with Tar | YES / (NO) |
| 0603-3429 | 324-16 | | | | East | Penetration Mastic | YES / (NO) |
| 0603-3430 | 324-17 | | | | | | YES / (NO) |
| 0603-3431 | 324-18 | | | | | | YES / (NO) |
| 0603-3432 | 324-19 | X2384P | Bungalow Rooms B-12, B-13 | | South | Layered Roof Cut with Mineralized Coat Sheet | YES / (NO) |
| 0603-3433 | 324-20 | | | | | Mineral Wool Insulation | YES / (NO) |
| (0603-3434) | 324-21 | | | | | Barrier Paper (Kraft) with Tar | (YES) / NO |
| 0603-3435 | 324-22 | | | | East | Layered Roof Cut with Mineralized Coat Sheet | YES / (NO) |
| 0603-3436 | 324-23 | | | | | Mineral Wool Insulation | YES / (NO) |
| (0603-3437) | 324-24 | | | | | Barrier Paper (Kraft) with Tar | (YES) / NO |

| DATE: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | NO. OF SAMPLES |
|---|---|---|---|---|
| 3/30/06 | 13:30 | Sean Purcar | SEI | 12 |
| 3/30/06 | 1:35pm | Brenda Davidson | OEHS | 12 |

Bond Funded: (Yes) / No

Type of Bond:

Job Cost #: 97.00968

Other Than Bond Describe Maintenance & Operations:

Deferred Maintenance:

Other: PM

4.12.06

TOTAL P.04

APR-05-2006 14:45 FROM TO 18059934992 TC P.04

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1139

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP LAB # 10
Method EPA/600/R-93/116(MOD) Jul
Date Received: 03/31



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AMI % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20060033426 | NLI | 04/03/2006 | X2383P : BUNG. RM. B-10, B-11 ROOF N. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; CAPSHEET; TARLIKE, GRANULAR, COATING | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% CELLULOSE, 5% FIBERGLASS DEBRIS, SAND, TAR |
| 20060033427 | NLI | 04/03/2006 | X2383P : BUNG. RM. B-10, B-11 ROOF N. | NON-HOMOGENEOUS; FRIABLE; LITE BROWN; INSULATION; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 85% CELLULOSE, 5% MINERAL WOOL BINDER |
| 20060033428 | NLI | 04/03/2006 | X2383P : BUNG. RM. B-10, B-11 ROOF N. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ LITE BROWN; BARRIER PAPER; TAR-LIKE, PAPER | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE, 2% MINERAL WOOL BINDER, TAR |
| 20060033429 | NLI | 04/03/2006 | X2383P : BUNG. RM. B-10, B-11 ROOF E. | NON-HOMOGENEOUS; NON-FRIABLE; GRAY; MASTIC; TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | COMMENT(S): CONFIRM BY ST. 1% CELLULOSE SAND, TAR |
| 20060033430 | NLI | 04/03/2006 | X2383P : BUNG. RM. B-10, B-11 ROOF E. | NON-HOMOGENEOUS; NON-FRIABLE; GRAY; MASTIC; TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE SAND, TAR |
| 20060033431 | NLI | 04/03/2006 | X2383P : BUNG. RM. B-10, B-11 ROOF E. | NON-HOMOGENEOUS; NON-FRIABLE; GRAY; MASTIC; TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE SAND, TAR |
| 20060033432 | NLI | 04/03/2006 | X2384P : BUNG. RM. B-12, B-13 ROOF S. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; CAPSHEET; TARLIKE, GRANULAR, COATING | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% CELLULOSE, 5% FIBEROLASS DEBRIS, SAND, TAR |
| 20060033433 | NLI | 04/03/2006 | X2384P : BUNG. RM. B-12, B-13 ROOF S. | NON-HOMOGENEOUS; FRIABLE; LITE BROWN; INSULATION; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 85% CELLULOSE, 5% MINERAL WOOL BINDER |

Lab Supervisor Signature and Date: [signature] 4/5/06

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
*Quantification done by optical estimate* 1 - 5 % considered non-quantifiable.

This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government

APR-05-2006 14:45 FROM TO 18055834992 P.02

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP LAB# I
Method EPA/600/R-93/116(MOD) Ju
Date Received: 03/

| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | FREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20060033434 | NLI | 04/03/2006 | X2384P : BUNG. RM. B-12, B-13 ROOF S. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ LITE BROWN; BARRIER PAPER; TAR-LIKE, PAPER | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 10% CELLULOSE, 5% MINERAL WOOL BINDER, TAR COMMENT(S): CONFIRI BY RC |
| 20060033435 | NLI | 04/03/2006 | X2384P : BUNG. RM. B-12, B-13 ROOF E. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; CAPSHEET; TARLIKE, GRANULAR, COATING | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% CELLULOSE, 5% FIBERGLASS DEBRIS, SAND, TAR |
| 20060033436 | NLI | 04/03/2006 | X2384P : BUNG. RM. B-12, B-13 ROOF B. | NON-HOMOGENEOUS; FRIABLE; LITE BROWN; INSULATION; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 85% CELLULOSE, 5% MINERAL WOOL BINDER |
| 20060033437 | NLI | 04/03/2006 | X2384P : BUNG. RM. B-12, B-13 ROOF E. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ LITE BROWN; BARRIER PAPER; TAR-LIKE, PAPER | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 10% CELLULOSE, 5% MINERAL WOOL BINDER, TAR COMMENT(S): CONFIRME BY RC |

Lab Supervisor Signature and Date: 4/5/06

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
"Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. Any material in these sealing components

This report is not used by LAUSD to claim product endorsement by [illegible] or any agency of the [illegible]

APR-05-2006 14:45 FROM TO 18059834992 P.03

Hygeia Laboratories Inc.
82 W. Sierra Madre Blvd
Sierra Madre, CA 91024
(626) 355-4711
(626) 355-4497 FAX

# Preliminary Analytical Results

by Point Counting X 1000 Pts. ___ 400 Pts.

To: Ira Lind
From: Art Casas
Total # of pages: 1
Client Job # 0603 - 3434, 3437
San Pedro HS

Of: LAUSD / ATI
Date 4.24.06 Time
**Urgent! Please deliver as soon as possible.**
Hygeia Ref. # 1623806022-1
Original Hygeia Ref. #

| Client ID # 0603- | Hygeia ID # | Asbestos % Chrysotile | Amosite | Crocidolite | Other | Non Detected | Comments |
|---|---|---|---|---|---|---|---|
| 3434 | 101002 | <0.1 | | | | | |
| 3437 | 101003 | <0.1 | | | | | |

Preliminary results are subject to management review

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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

22523

SITE NAME: San Pedro HS  CODE: 8850  PROJECT: Bond A/c Project

SAMPLED BY: S. Rincer  DATE SAMPLED: 3/29/06  DEPT. / CONSULTANT: SEI  TEL. NO: 805-983-1

Fill in all information legibly and precisely. Sampler should make a copy before submitting samples to the lab. USE BLACK/BLUE INK ONLY
Original to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 0603-3438 | 324-25 | X2384P | Bungalow Rooms B-12, B-13 | East | North | Layered Roof Cut-Up Mineral Cap Sheet | YES / NO |
| 0603-3439 | 324-26 | ↓ | ↓ | ↓ | ↓ | Mineral Base Flashing | YES / NO |
| 0603-3440 | 324-27 | | | | | Base Flash (Roof) Pitch Pan | YES / NO |
| 0603-3441 | 324-28 | | | | West | Penetration Mastic | YES / NO |
| 0603-3442 | 324-29 | | | | ↓ | ↓ | YES / NO |
| 0603-3443 | 324-30 | ↓ | ↓ | | ↓ | | YES / NO |
| 0603-3444 | 324-31 | X2082L | Bungalow Rooms B-2, B-5 | | Southeast | Layered Roof Cut-Up Mineral Cap Sheet | YES / NO |
| 0603-3445 | 324-32 | | | | Northeast | | YES / NO |
| 0603-3446 | 324-33 | | | | Northwest | | YES / NO |
| 0603-3447 | 324-34 | | | | Southwest | Penetration mastic | YES / NO |
| 0603-3448 | 324-35 | | | | West | | YES / NO |
| 0603-3449 | 324-36 | ↓ | ↓ | ↓ | ↓ | ↓ | YES / NO |

| DATE: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | NO. OF SAMPLES |
|---|---|---|---|---|
| 3/30/06 | 13:30 | Sean Rincer SR | SEI | 12 |
| 3/30/06 | 1:35 pm | Brenda Davidson Brenda Davidson | OEHS | 12 |

Bond Funded: (Yes) / No
Type of Bond:
Job Cost #: 97.00968

Other Than Bond Describe
Maintenance & Operations:
Deferred Maintenance:
Other:

PM

point count 4.12.06

bulk sample submittal 8/10/04 MS

APR-11-2005 15:07 P.04/04
TO 18059834992 FROM 805983
APR-04-2006 16:30 P.02
TOTAL P.04

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1139

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP LAB# 101505
Method EPA/600/R-93/116(MOD) July '93
Date Received: 03/30/200



| LAUSD Lab# | REC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2006033438 | RC | 04/03/2006 | X2184P : BUNG. RM. B-12, B-13 ROOF N. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ OFF WHITE; CAPSHEET; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% CELLULOSE, 15% FIBERGLASS QUARTZ, ROCK, TAR |
| 2006033439 | RC | 04/03/2006 | X2184P : BUNG. RM. B-12, B-13 ROOF N. | NON-HOMOGENEOUS; FRIABLE; GRAY; INSULATION; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE, 20% FIBERGLASS TAR |
| 2006033440 | RC | 04/03/2006 | X2184P : BUNG. RM. B-12, B-13 ROOF N. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; BARRIER PAPER; PAPER WITH TAR | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 90% CELLULOSE TAR COMMENT(S): CONFIRMED BY NLI. |
| 2006033441 | RC | 04/03/2006 | X2184P : BUNG. RM. B-12, B-13 ROOF W. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ GRAY; MASTIC; TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE ROCK, TAR |
| 2006033442 | RC | 04/03/2006 | X2184P : BUNG. RM. B-12, B-13 ROOF W. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ GRAY; MASTIC; TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE ROCK, TAR |
| 2006033443 | RC | 04/03/2006 | X2184P : BUNG. RM. B-12, B-13 ROOF W. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ GRAY; MASTIC; TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE ROCK, TAR |
| 2006033444 | RC | 04/03/2006 | X2082P : BUNG. RM. B-7, B-8 ROOF S.E. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ OFF WHITE; CAPSHEET; TARLIKE, ROCK | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 5% CELLULOSE, 15% FIBERGLASS QUARTZ, ROCK, TAR |
| 2006033445 | RC | 04/03/2006 | X2082P : BUNG. RM. B-7, B-8 ROOF N.E. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ OFF WHITE; CAPSHEET; TARLIKE, ROCK | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 5% CELLULOSE, 15% FIBERGLASS QUARTZ, ROCK, TAR |
| 2006033446 | RC | 04/03/2006 | X2082P : BUNG. RM. B-7, B-8 ROOF N.W. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ OFF WHITE; CAPSHEET; TARLIKE, ROCK | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 5% CELLULOSE, 15% FIBERGLASS QUARTZ, ROCK, TAR COMMENT(S): CONFIRMED BY NLI. |

Lab Supervisor Signature and Date: 14/4/06

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
"Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.

This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government.

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101
Method EPA/600/R-93/116(MOD) July 1
Date Received: 03/30/2



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2006033447 | RC | 04/03/2006 | X2082P : BUNG. RM. B-7, B-8 ROOF S.W. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ GRAY; MASTIC; TARLIKE | 6 | 0 | 0 | 0 | 0 | 0 | 6 | 2% CELLULOSE ROCK, TAR |
| 2006033448 | RC | 04/03/2006 | X2082P : BUNG. RM. B-7, B-8 ROOF W. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ GRAY; MASTIC; TARLIKE | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 2% CELLULOSE ROCK, TAR COMMENT(S): CONFIRME BY NLI. |
| 2006033449 | RC | 04/03/2006 | X2082P : BUNG. RM. B-7, B-8 ROOF W. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ GRAY; MASTIC; TARLIKE | 6 | 0 | 0 | 0 | 0 | 0 | 6 | 2% CELLULOSE ROCK, TAR |

Lab Supervisor Signature and Date: 4/4/06

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
"Quantification done by optical estimate" 1 - 5 % considered non-quantifiable

This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government

Hygeia Labor...
82 W. Sierra Madre Blvd
Sierra Madre, CA 91024
(626) 355-4711
(626) 355-4497 FAX

Preliminary Analytical Results -
by Point Counting ✓ 1000 Pts. ___ 400 Pts.

To: IRA LIND
From: Guillermo Hernandez
Total # of pages: ___
Client Job # 0603/3440, 3444-3446 (San Pedro HS Chond A/C Project)

Of: LAUSD/ATU
Date 4-24-06 Time ___
Urgent! Please deliver as soon as possible.
Hygeia Ref. # 16 23806 0222
Original Hygeia Ref. # ___

| Client ID # | Hygeia ID # | Asbestos % Chrysotile | Amosite | Crocidolite | Other | Non Detected | Comments |
|---|---|---|---|---|---|---|---|
| 0603-3440 | 10/0814 | <0.1 | | | | | |
| 3444 | 815 | <0.1 | | | | | |
| 3445 | 816 | <0.1 | | | | | |
| 3446 | 817 | <0.1 | | | | | |

Preliminary results are subject to management review.

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OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY

CHAIN-OF-CUSTODY FOR BULK ANALYSIS

22524

NAME: San Pedro Hs  CODE: 8850  PROJECT: Bond A/C Project

ED BY: S. Purcer  DATE SAMPLED: 3/25/06  DEPT. / CONSULTANT: SEI  TEL. NO: 805-983-6262

l information legibly and precisely. Sampler should make a copy before submitting samples to the lab. **USE BLACK/BLUE INK ONLY**
to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| -3450 | 324-37 | X1007M | Bungalow Rooms B-1, B-2 | Roof | South | Layered Roof Cut with Mineralized Cap Sheet | YES / (NO) |
| 3-3451 | 324-38 | ↓ | ↓ | ↓ | West | ↓ | YES / (NO) |
| 3-3452 | 324-39 | | | | North | | YES / (NO) |
| 3-3453 | 324-40 | | | | East | Penetration Mastic | YES / (NO) |
| 03-3454 | 324-41 | | | | ↓ | ↓ | YES / (NO) |
| 03-3455 | 324-42 | | | | | | YES / (NO) |
| 03-3456 | 324-43 | 002BAJ | Assembly Bldg | | East | Layered Roof Cut With Mineralized Cap Sheet | YES / (NO) |
| 03-3457 | 324-44 | ↓ | ↓ | | Southwest | ↓ | YES / (NO) |
| 03-3458 | 324-45 | | | | West | | YES / (NO) |
| 03-3459 | 324-46 | | | | Northeast | Penetration mastic | YES / (NO) |
| 503-3460 | 324-47 | | | | West | ↓ | YES / (NO) |
| 503-3461 | 324-48 | ↓ | ↓ | ↓ | ↓ | ↓ | YES / (NO) |

| | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | NO. OF SAMPLES |
|---|---|---|---|---|
| 3/06 | 13:30 | Sean Purcer | SEI | 12 |
| 3/06 | 1:85pm | Brenda Davidson Brenda Davidson | OEHS | 12 |
| | | | | |
| | | | | |

Funded: (Yes) / No
of Bond:
ost #: 97.00968

Other Than Bond Describe
Maintenance & Operations:
Deferred Maintenance:
Other:

ngeles Unified S[illegible] District
[illegible] of Environmental Health and Safety
S. San Pedro St.
ngeles, CA 90015
745-1138

**Asbestos Bulk Sam[illegible]nalysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP [illegible] 101505-0
Method EPA/600/R-93/116([illegible] uly 1993
Date Receive[illegible] 03/30/2006



| SD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| )33450 | RC | 03/31/2006 | X1007M : BUNG. RM. B-1, B-2 ROOF S. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ OFF WHITE; CAPSHEET; TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% CELLULOSE, 15% FIBERGLASS QUARTZ, ROCK, TAR |
| 033451 | RC | 03/31/2006 | X1007M : BUNG. RM. B-1, B-2 ROOF W. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ OFF WHITE; CAPSHEET; TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% CELLULOSE, 15% FIBERGLASS QUARTZ, ROCK, TAR |
| 033452 | RC | 03/31/2006 | X1007M : BUNG. RM. B-1, B-2 ROOF N. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ OFF WHITE; CAPSHEET; TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% CELLULOSE, 15% FIBERGLASS QUARTZ, ROCK, TAR |
| 033453 | RC | 03/31/2006 | X1007M : BUNG. RM. B-1, B-2 ROOF E. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ GRAY; MASTIC; TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE TAR |
| 033454 | RC | 03/31/2006 | X1007M : BUNG. RM. B-1, B-2 ROOF E. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ GRAY; MASTIC; TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE TAR |
| 033455 | RC | 03/31/2006 | X1007M : BUNG. RM. B-1, B-2 ROOF E. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ GRAY; MASTIC; TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE TAR |
| 6033456 | RC | 03/31/2006 | 002BAJ : ASSEMBLY BLDG. ROOF E. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ OFF WHITE; CAPSHEET; TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% CELLULOSE, 15% FIBERGLASS QUARTZ, ROCK, TAR |
| 6033457 | RC | 03/31/2006 | 002BAJ : ASSEMBLY BLDG. ROOF S.W. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ OFF WHITE; CAPSHEET; TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% CELLULOSE, 15% FIBERGLASS QUARTZ, ROCK, TAR |
| 6033458 | RC | 03/31/2006 | 002BAJ : ASSEMBLY BLDG. ROOF W. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ OFF WHITE; CAPSHEET; TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% CELLULOSE, 15% FIBERGLASS QUARTZ, ROCK, TAR |

) Supervisor Signature and Date: [signature] 4/3/06

Signature of Analyst: [signature]

te: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
"Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government.
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Angeles Unified l District
ce of Environmental Health and Safety
) S. San Pedro St.
Angeles, CA 90015
)745-1138

**Asbestos Bulk Sa Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP 101505-0
Method EPA/600/R-93/116(l. July 1993
Date Received: 03/30/2006



| JSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5033459 | RC | 03/31/2006 | 002BAJ : ASSEMBLY BLDG. ROOF N.E. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ GRAY; MASTIC; TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE TAR |
| 5033460 | RC | 03/31/2006 | 002BAJ : ASSEMBLY BLDG. ROOF W. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ GRAY; MASTIC; TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE TAR |
| 5033461 | RC | 03/31/2006 | 002BAJ : ASSEMBLY BLDG. ROOF W. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ GRAY; MASTIC; TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE TAR |

Supervisor Signature and Date: 4/3/06

Signature of Analyst:

: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
"Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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LOS ANGELES UNIFIED SCHOOL DISTRICT
OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY
CHAIN-OF-CUSTODY FOR BULK ANALYSIS

5246

TE NAME: SAN PEDRO HS  CODE: 8850  PROJECT: REPLACE HVAC

IPLED BY: G. NERI  DATE SAMPLED: 2-7-07  DEPT. / CONSULTANT: ATU  TEL. NO: (213) 745-1450

all information legibly and precisely. Sampler should make a copy before submitting samples to the lab. **USE BLACK/BLUE INK ONLY**
al to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 2-0592 | 01 | 006CBJ | P.E. BLDG. | Boy's Locker | South west | HVAC DUCT TAPE | YES / (NO) |
| 2-0593 | 02 | ↓ | ↓ | ↓ | South west | ↓ | YES / (NO) |
| 2-0594 | 03 | ↓ | ↓ | ↓ | South central | ↓ | YES / (NO) |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |

| E: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | NO. OF SAMPLES |
|---|---|---|---|---|
| 7/07 | 2000 | GUS NERI / | ATU | 3 |
| 8-07 | 2:50pm | Ray Bowie / Bowie | ATU-19 | (3) |
| 9-07 | 7:25AM | G. BARROW / GBarrow | ATU-19 | 3 |
| -09-07 | 7:55 | NL / ISAAC | OEHS | (3) |

d Funded: Yes / (No)
e of Bond:
Cost #:

Other Than Bond Describe
Maintenance & Operations: ✓
Deferred Maintenance:
Other:

Angeles Unifie[illegible]l District
ice of Environm[illegible] Health and Safety
9 S. San Pedro St.
Angeles, CA 90015
3)745-1138

**Asbestos Bulk Sa[illegible] Analysis**
**Laboratory [illegible]ort**

SAN PEDRO HS
8850

NVLAP [illegible]# 101505-0
Method EPA/600/R-93/116[illegible] July 1993
Date Received: 02/09/2007



| USD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17020592 | ST | 02/14/2007 | 006CBJ : P.E BLD. BOYS LOCKER SW | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; DUCT TAPE; WOVEN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE ADHESIVE |
| 17020593 | ST | 02/14/2007 | 006CBJ : P.E BLD. BOYS LOCKER SW | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; DUCT TAPE; WOVEN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE ADHESIVE |
| 17020594 | ST | 02/14/2007 | 006CBJ : P.E BLD. BOYS LOCKER SO/CTR. | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; DUCT TAPE; WOVEN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE ADHESIVE |

ab Supervisor Signature and Date: 2/15/07

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY
CHAIN-OF-CUSTODY FOR BULK ANALYSIS

2-291

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT: Sample welding booth for Asbestos

SAMPLED BY: William Shelby DATE SAMPLED: 2-12-07 DEPT. / CONSULTANT: Paint Dept. TEL. NO: (310) 808-1537

in all information legibly and precisely. Sampler should make a copy before submitting samples to the lab. USE BLACK/BLUE INK ONLY
ginal to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 702-0922 | LOW-1 | 001CBJ | Ind. Arts Bldg | 163 | Northwest corner of South booth | Lining on walls | YES / (NO) |
| 702-0923 | LOW-2 | 001CBJ | Ind. Arts Bldg | 163 | Northwest corner of middle booth | Lining on walls | YES / (NO) |
| 702-0924 | LOW-3 | 001CBJ | Ind Arts Bldg | 163 | Northeast corner of North booth | Lining on walls | YES / (NO) |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |

| E: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | NO. OF SAMPLES |
|---|---|---|---|---|
| 4-07 | 8:30AM | William Shelby William Shelby | Paint / 8 / NA | 3 |
| 14-07 | 12:05PM | E. L. Stewart E.L. Stewart | HVac 8 NA | 3 |
| -07 | 12:05 pm | Martha Velasco Martha Velasco | OEHS | 3 |

Funded: Yes / No
of Bond:
ost #:

Other Than Bond Describe
Maintenance & Operations:
Deferred Maintenance:
Other:

Angeles Unified Sc[illegible]istrict
ce of Environmenta[illegible]lth and Safety
) S. San Pedro St.
Angeles, CA 90015
)745-1138

**Asbestos Bulk Sample [illegible]alysis**
**Laboratory Re[illegible]**

SAN PEDRO HS
8850

Method EPA/600/R-93/116(MO[illegible]y 1993
Date Receive [illegible]4/2007



| USD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7020922 | RC | 02/15/2007 | 001CBJ : IND. ARTS BLD. RM. 163 NW CORNER OF SO. BOOTH | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ GRAY; LINING MATERIAL; FIBROUS/ GRANULAR | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2% CELLULOSE CARBONATES, DEBRIS, TAR |
| | | | | COMMENT(S): SMALL AMOUNT COLLECTED. | | | | | | | | |
| 7020923 | RC | 02/15/2007 | 001CBJ : IND. ARTS BLD. RM. 163 NW CORNER OF MIDDLE BOOTH | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ GRAY; LINING MATERIAL; FIBROUS/ GRANULAR | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 2% CELLULOSE CARBONATES, DEBRIS, TAR |
| 7020924 | RC | 02/15/2007 | 001CBJ : IND. ARTS BLD. RM. 163 NE CORNER OF NO. BOOTH | NON-HOMOGENEOUS; NON-FRIABLE; GRAY; LINING MATERIAL; FIBROUS/ GRANULAR | 10 | 0 | 0 | 0 | 0 | 0 | 10 | 2% CELLULOSE CARBONATES |

Lab Supervisor Signature and Date: [signature] 2/20/07

Signature of Analyst: [signature]

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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MR. P
6-30-08

# LOS ANGELES UNIFIED SCHOOL DISTRICT
## OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

SITE NAME: San Pedro HS CODE: 0850 PROJECT: 33.08247 27741

SAMPLED BY: Steve Medtland/Rigo Rodriguez DEPT / CONSULTANT: Panacea, Inc. TEL. NO.: 562-860-2869 DATE SAMPLED: 3/6/08

Fill in all information legibly and precisely. Sampler should make a copy before submitting samples to the lab. **USE BLACK/BLUE INK ONLY.**
Original to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 0803-0347 | B-1 | 005BCJ | English Building | Crawlspace | Northwestern | Debris | (YES) NO |
| 0803-0348 | B-2 | ↓ | ↓ | ↓ | ↓ | ↓ | (YES) NO |
| 0803-0349 | B-3 | ↓ | ↓ | ↓ | Northeastern | ↓ | (YES) NO |
| 0803-0350 | B-4 | ↓ | ↓ | First Floor GIRLS R/R IN WORK - TEMPORARY FOR REPIPE | Southwestern | Pipe Insulation Debris | (YES) NO |
| | | | | | OPENING | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

| DATE: | TIME: | NAME (PRINT & SIGN): | DEPT/AREA/CONSULTANT: | NO. OF SAMPLES |
|---|---|---|---|---|
| 3/6/08 | 2:00PM | Rigo Rodriguez | Panacea, Inc. | 4 |
| 3-7-08 | 2p | M-Martinez/ | OEHS | 4 |

Bond Funded: (Yes) / No
Type of Bond: Measure 'K'
Job Cost #: 33.08247

Other Than Bond Describe
Maintenance & Operations: Yes
Deferred Maintenance:
Other:

Los Angeles ...fied School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP LAB# 101595-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/07/2008



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008030347 | NLI | 03/10/2008 | 005BCJ : ENGLISH BLD. CRAWL SPACE NORTH WESTERN | NON-HOMOGENEOUS; FRIABLE; OFF WHITE; DEBRIS; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | CASO, DEBRIS, PIGMENT |
| 2008030348 | NLI | 03/10/2008 | 005BCJ : ENGLISH BLD. CRAWL SPACE NORTH WESTERN | NON-HOMOGENEOUS; FRIABLE; OFF WHITE; DEBRIS; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | CASO, DEBRIS, PIGMENT |
| 2008030349 | NLI | 03/10/2008 | 005BCJ : ENGLISH BLD. CRAWL SPACE NORTH EASTERN | NON-HOMOGENEOUS; FRIABLE; OFF WHITE; DEBRIS; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | CASO, DEBRIS, PIGMENT |
| 2008030350 | NLI | 03/10/2008 | 005BCJ : ENGLISH BLD. FIRST FLOOR SOUTH WESTERN | NON-HOMOGENEOUS; FRIABLE; OFF WHITE; PIPE INSULATION; DEBRIS | 10 | 0 | 0 | 0 | 0 | 0 | 10 | CARBONATES, CASO, DEBRIS |

Lab Supervisor Signature and Date: 3/13/08

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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Los Angeles Unified School District
Environmental Health and Safety Branch
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 743-5086

# ASBESTOS BULK SAMPLE ANALYSIS
## LABORATORY REPORT
## SAN PEDRO HS
## 8850

NVLAP #1505
METHOD EPA/600/R-93/116 (MOD) JULY 1993
Date Received: 2/17/00


| LAUSD Lab# | MIC | Date Analyzed | BUILDING / AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | OTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|
| 0002-0944 | RPC | 2/18/00 | STADIUM BLEACHERS / | NON-HOMOGENEOUS, NON-FRIABLE, DARK BROWN, BARRIER PAPER, THIN FLAT SOLID | 2 | 0 | 0 | 2 | CELLULOSE 2%, BINDER |
| 0002-0945 | RPC | 2/18/00 | STADIUM BLEACHERS / | NON-HOMOGENEOUS, NON-FRIABLE, DARK BROWN, BARRIER PAPER, THIN FLAT SOLID | 2 | 0 | 0 | 2 | CELLULOSE 2%, BINDER |
| 0002-0946 | RPC | 2/18/00 | STADIUM BLEACHERS / | NON-HOMOGENEOUS, NON-FRIABLE, DARK BROWN, BARRIER PAPER, THIN FLAT SOLID | 3 | 0 | 0 | 3 | CELLULOSE 2%, BINDER |

Signature of Lab Supervisor: _____ Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%.
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# LOS ANGELES UNIFIED SCHOOL DISTRICT
# OEHS ASBESTOS BULK SAMPLE SUBMITTAL

MR-P. 6-30-08

SITE NAME San Pedro HS CODE 8850 PROJECT 33.08247 - Re-Piping

SAMPLED BY Steven Modtland DEPT. B&M Panacea, Inc. TEL. NO. 714-357-1280 DATE SAMPLED 3/10/08

Fill in all information legibly and precisely. Sampler should make a copy before submitting to the lab. **USE BLACK/BLUE INK ONLY.**
Original to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 0803-0593 | B-5 | 005BCJ | Classroom Bldg. 1 | Classroom 228B | Southeast | Leveling Compound | YES (NO) |
| 0803-0594 | B-6 | ↓ | ↓ | Classroom 229 | North | ↓ | YES (NO) |
| 0803-0595 | B-7 | | | ↓ | Northeast | ↓ | YES (NO) |
| 0803-0596 | B-8 | | | Classroom 230 | South | 12"X12" Floor Tile and Mastic, Brown | YES (NO) |
| 0803-0597 | B-9 | | | ↓ | Northeast | ↓ | YES (NO) |
| 0803-0598 | B-10 | | | ↓ | Northwest | ↓ | YES (NO) |
| 0803-0599 | B-11 | | | Classroom 230 | South | 12"X12" Floor Tile and Mastic, Light Brown | YES (NO) |
| 0803-0600 | B-12 | | | ↓ | Northeast | ↓ | YES (NO) |
| 0803-0601 | B-13 | | | ↓ | Northwest | ↓ | YES (NO) |
| 0803-0602 | B-14 | | | Classroom 230 | South | Leveling Compound | YES (NO) |
| 0803-0603 | B-15 | | | Hallway-First Floor | East | 12"X12" Floor Tile and Mastic, Brown and White | YES (NO) |
| 0803-0604 | B-16 | ↓ | ↓ | ↓ | North | ↓ | YES (NO) |

| DATE: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 3/10/08 | 4:33 PM | Steven Modtland | Panacea, Inc. | 12 |
| 3.11.08 | 8:00A | SEVIA TE | OEHS | 12 |
| | | | | |
| | | | | |
| | | | | |

Bond Funded: (Yes) / No (Circle One)

Type of Bond: _____

Job Cost #: 33.08247

Other Than Bond Describe:

Maintenance & Operations: _____

Deferred Maintenance: _____

Other: _____

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/11/2008



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008030593-A | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>CLSRM. 228B<br>SE | HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE;<br>COMPOUND MATERIAL;<br>SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE<br>BINDER, ORG.MATERIAL |
| 2008030593-B | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>CLSRM. 228B<br>SE | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TARLIKE | 3 | 0 | 0 | 0 | 0 | 0 | 3 | TAR |
| 2008030594-A | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>CLSRM. 229<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE;<br>COMPOUND MATERIAL;<br>SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE<br>BINDER, ORG.MATERIAL |
| 2008030594-B | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>CLSRM. 229<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TARLIKE | 3 | 0 | 0 | 0 | 0 | 0 | 3 | TAR |
| 2008030595-A | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>CLSRM. 229<br>NE | HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE;<br>COMPOUND MATERIAL;<br>SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE<br>BINDER, ORG.MATERIAL |
| 2008030595-B | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>CLSRM. 229<br>NE | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TARLIKE | 3 | 0 | 0 | 0 | 0 | 0 | 3 | TAR |
| 2008030596-A | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>CLSRM. 230<br>SOUTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE;<br>FLOOR TILE;<br>FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ORG.MATERIAL |
| | | | | | **COMMENT(S): DIFFERENT FROM 0803/0598. NO BLACK MASTIC.** | | | | | | | |
| 2008030596-B | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>CLSRM. 230<br>SOUTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>YELLOW;<br>ADHESIVE;<br>ADHESIVE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE<br>ADHESIVE |
| 2008030597-A | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>CLSRM. 230<br>NE | HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE;<br>FLOOR TILE;<br>FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ORG.MATERIAL |
| | | | | | **COMMENT(S): DIFFERENT FROM 0803/0598. NO BLACK MASTIC.** | | | | | | | |

Lab Supervisor Signature and Date: 3/13/08

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.

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Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/11/2008



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008030597-B | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1 CLSRM. 230 NE | HOMOGENEOUS; NON-FRIABLE; YELLOW; ADHESIVE; ADHESIVE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE ADHESIVE |
| 2008030598-A | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1 CLSRM. 230 NW | HOMOGENEOUS; NON-FRIABLE; BEIGE; FLOOR TILE; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ORG.MATERIAL |
| 2008030598-B | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1 CLSRM. 230 NW | HOMOGENEOUS; NON-FRIABLE; YELLOW; ADHESIVE; ADHESIVE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE ADHESIVE |
| 2008030598-C | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1 CLSRM. 230 NW | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; TARLIKE | 3 | 0 | 0 | 0 | 0 | 0 | 3 | TAR |
| 2008030599-A | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1 CLSRM. 230 SOUTH | HOMOGENEOUS; NON-FRIABLE; LITE BROWN; FLOOR TILE; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ORG.MATERIAL |
| 2008030599-B | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1 CLSRM. 230 SOUTH | HOMOGENEOUS; NON-FRIABLE; YELLOW; ADHESIVE; ADHESIVE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE ADHESIVE |
| 2008030600-A | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1 CLSRM. 230 NE | HOMOGENEOUS; NON-FRIABLE; LITE BROWN; FLOOR TILE; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ORG.MATERIAL |
| 2008030600-B | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1 CLSRM. 230 NE | HOMOGENEOUS; NON-FRIABLE; YELLOW; ADHESIVE; ADHESIVE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE ADHESIVE |
| 2008030601-A | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1 CLSRM. 230 NW | HOMOGENEOUS; NON-FRIABLE; LITE BROWN; FLOOR TILE; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ORG.MATERIAL |

Lab Supervisor Signature and Date: [signature] 3/13/08

Signature of Analyst: [signature]

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.

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Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/11/2008



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008030601-B | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>CLSRM. 230<br>NW | HOMOGENEOUS;<br>NON-FRIABLE;<br>YELLOW;<br>ADHESIVE;<br>ADHESIVE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% CELLULOSE<br>ADHESIVE |
| 2008030602-A | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>CLSRM. 230<br>SOUTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>LT.GRAY;<br>COMPOUND MATERIAL;<br>SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE<br>BINDER, ORG.MATERIAL |
| 2008030602-B | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>CLSRM. 230<br>SOUTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TARLIKE | 3 | 0 | 0 | 0 | 0 | 0 | 3 | TAR |
| 2008030603-A | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>HALLWAY/1ST FLR.<br>EAST | HOMOGENEOUS;<br>NON-FRIABLE;<br>DARK BROWN;<br>FLOOR TILE;<br>FLAT SOLID | 3 | 0 | 0 | 0 | 0 | 0 | 3 | BINDER, ORG.MATERIAL |
| 2008030603-B | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>HALLWAY/1ST FLR.<br>EAST | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TARLIKE | 3 | 0 | 0 | 0 | 0 | 0 | 3 | TAR |
| 2008030604-A | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>HALLWAY/1ST FLR.<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>DARK BROWN;<br>FLOOR TILE;<br>FLAT SOLID | 3 | 0 | 0 | 0 | 0 | 0 | 3 | BINDER, ORG.MATERIAL |
| 2008030604-B | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>HALLWAY/1ST FLR.<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TARLIKE | 3 | 0 | 0 | 0 | 0 | 0 | 3 | TAR |

Lab Supervisor Signature and Date: 3/13/08

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government.
This report may not be reproduced except in its entirety.

# LOS ANGELES UNIFIED SCHOOL DISTRICT
## OEHS ASBESTOS BULK SAMPLE SUBMITTAL

20701

SITE NAME San Pedro HS CODE 8850 PROJECT 33.08247- Re-Piping

SAMPLED BY Steven Modtland DEPT. Panacea, Inc. TEL. NO. 714-357-1280 DATE SAMPLED 3/10/08

Fill in all information legibly and precisely. Sampler should make a copy before submitting to the lab. **USE BLACK/BLUE INK ONLY.**

Original to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 0803-0605 | B-17 | 005 Bej | Classroom Bldg. 1 | Hallway - First Floor | Northwest | 12"x12" Floor Tile and Mastic, Brown and White | YES (NO) |
| 0803-0606 | B-18 | ↓ | ↓ | Room 127 | West | 12"x12" Floor Tile and Mastic, Beige w/ Brown Streaks | YES (NO) |
| 0803-0607 | B-19 | | | Hallway In Room 127 | Northeast | ↓ | YES (NO) |
| 0803-0608 | B-20 | | | Room 127 | Northeast | ↓ | YES (NO) |
| 0803-0609 | B-21 | | | Hallway - Second Floor | East | Linoleum and Mastic, Tan | YES (NO) |
| 0803-0610 | B-22 | | | ↓ | North | Linoleum and Mastic, Light Blue | YES (NO) |
| 0803-0611 | B-23 | | | ↓ | South | ↓ ↓ | YES (NO) |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

| DATE: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 3/10/08 | 9:33 PM | Steven Modtland | Panacea, Inc. | 7 |
| 3-11-08 | 8-AM | OEHS TB | LSM | |

Bond Funded: (Yes) / No (Circle One)

Type of Bond: _____

Job Cost #: 33.08247

Other Than Bond Describe:

Maintenance & Operations: _____

Deferred Maintenance: _____

Other: _____

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/11/2008



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008030605-A | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>HALLWAY/1ST FLR.<br>NW | HOMOGENEOUS;<br>NON-FRIABLE;<br>DARK BROWN;<br>FLOOR TILE;<br>FLAT SOLID | 3 | 0 | 0 | 0 | 0 | 0 | 3 | BINDER, ORG.MATERIAL |
| 2008030605-B | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>HALLWAY/1ST FLR.<br>NW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TARLIKE | 3 | 0 | 0 | 0 | 0 | 0 | 3 | TAR |
| 2008030606-A | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>RM. 127<br>WEST | HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE/ LITE BROWN;<br>FLOOR TILE;<br>FLAT SOLID | 2 | 0 | 0 | 0 | 0 | 0 | 2 | BINDER, ORG.MATERIAL |
| 2008030606-B | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>RM. 127<br>WEST | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TARLIKE | 5 | 0 | 0 | 0 | 0 | 0 | 5 | TAR |
| 2008030607-A | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>HALLWAY IN RM. 127<br>NE | HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE/ LITE BROWN;<br>FLOOR TILE;<br>FLAT SOLID | 2 | 0 | 0 | 0 | 0 | 0 | 2 | BINDER, ORG.MATERIAL |
| 2008030607-B | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>HALLWAY IN RM. 127<br>NE | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TARLIKE | 5 | 0 | 0 | 0 | 0 | 0 | 5 | TAR |
| 2008030608-A | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>RM. 127<br>NE | HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE/ LITE BROWN;<br>FLOOR TILE;<br>FLAT SOLID | 2 | 0 | 0 | 0 | 0 | 0 | 2 | BINDER, ORG.MATERIAL |
| 2008030608-B | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>RM. 127<br>NE | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TARLIKE | 5 | 0 | 0 | 0 | 0 | 0 | 5 | TAR |
| 2008030609-A | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1<br>HALLWAY/2ND FLR.<br>EAST | HOMOGENEOUS;<br>NON-FRIABLE;<br>TAN;<br>LINOLEUM;<br>THIN FLAT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE<br>BINDER, ORG.MATERIAL |

Lab Supervisor Signature and Date: 3/13/08

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government.

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/11/2008



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008030609-B | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1 HALLWAY/2ND FLR. EAST | HOMOGENEOUS; NON-FRIABLE; YELLOW; ADHESIVE; DEBRIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE ADHESIVE |
| 2008030610-A | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1 HALLWAY/2ND FLR. NORTH | HOMOGENEOUS; NON-FRIABLE; BLUE; LINOLEUM; THIN FLAT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE BINDER, ORG.MATERIAL |
| 2008030610-B | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1 HALLWAY/2ND FLR. NORTH | HOMOGENEOUS; NON-FRIABLE; YELLOW; ADHESIVE; DEBRIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE ADHESIVE |
| 2008030611-A | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1 HALLWAY/2ND FLR. SOUTH | HOMOGENEOUS; NON-FRIABLE; BLUE; LINOLEUM; THIN FLAT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE BINDER, ORG.MATERIAL |
| 2008030611-B | ST | 03/11/2008 | 005BCJ : CLSRM/BLD. 1 HALLWAY/2ND FLR. SOUTH | HOMOGENEOUS; NON-FRIABLE; YELLOW; ADHESIVE; DEBRIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE ADHESIVE |

Lab Supervisor Signature and Date: [signature] 3/13/08

Signature of Analyst: [signature]

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government.

P.11/21
TO 15528606297
MAY-08-2008 17:05 FROM

LOS ANGELES UNIFIED SCHOOL DISTRICT

# OEHS ASBESTOS BULK SAMPLE SUBMITTAL

28502

SITE NAME San Pedro High School CODE 8850 PROJECT 23-05208- CCTV Project

SAMPLED BY Steven Maddland DEPT. Parsons, Inc TEL. NO. 562-860-2869 DATE SAMPLED 5/2/08

Fill in all information legibly and precisely. Sampler should make a copy before submitting to the lab. USE BLACK/BLUE INK ONLY.
Original to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 0805-0881 | B-13 | X1276M | 2/3 unit Relocatable | Exterior Wall | North | Moisture barrier paper behind exterior stucco | YES (NO) |
| 0805-0882 | B-14 | ↓ | ↓ | ↓ | South | ↓ | YES (NO) |
| 0805-0883 | B-15 | ↓ | ↓ | ↓ | East | ↓ | YES (NO) |
| 0805-0884 | B-16 | A1262W | Standard Classroom Relocatable | Exterior Wall | South | Moisture barrier paper behind wood siding | YES (NO) |
| 0805-0885 | B-17 | ↓ | ↓ | ↓ | East | ↓ | YES (NO) |
| 0805-0886 | B-18 | ↓ | ↓ | ↓ | North | ↓ | YES (NO) |
| 0805-0887 | B-19 | X2387P | 2/3 unit Relocatable | Exterior Wall | South | Moisture barrier paper behind exterior stucco | YES (NO) |
| 0805-0888 | B-20 | ↓ | ↓ | ↓ | North | ↓ | YES (NO) |
| 0805-0889 | B-21 | ↓ | ↓ | ↓ | East | ↓ | YES (NO) |
| 0805-0890 | B-22 | X2384P | 2/3 unit Relocatable | Exterior Wall | South | moisture barrier paper behind exterior stucco | YES (NO) |
| 0805-0891 | B-23 | ↓ | ↓ | ↓ | North | ↓ | YES (NO) |
| 0805-0892 | B-24 | ↓ | ↓ | ↓ | West | ↓ | YES (NO) |

| DATE: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 5/1/08 | 1:35 pm | Steven Maddland | Parsons, Inc. | 12 |
| 5/2/08 | 7:14 am | Omar Arguelles | Parsons, Inc | 12 |
| 5-7-08 | 7:15 | Steven M | DSA | 12 |
| 5-21-08 | 12:20 P.M. | JAIRO LOPEZ | ATU-19 | 12 |
| 5-21-08 | 1:20PM | Meaghan Irving | EMS Labs | 12 |

Bond Funded: (Yes) / No (Circle One)

Type of Bond: 23-05208

Job Cost #:

Other Than Bond Describe:

Maintenance & Operations:

Deferred Maintenance:

Other:

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP Lab# 101505-0
Method EPA/600/R-93/116 (MOD) July 1993
Date Received: 05/07/2008



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008050881 | ST | 05/07/2008 | X1276M : 2/3 UNIT RELOC. EXTER. WALL NORTH | HOMOGENEOUS; NON-FRIABLE; BLACK; BARRIER PAPER; TAR-LIKE, PAPER | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 25% CELLULOSE TAR |
| 2008050882 | ST | 05/07/2008 | X1276M : 2/3 UNIT RELOC. EXTER. WALL SOUTH | HOMOGENEOUS; NON-FRIABLE; BLACK; BARRIER PAPER; TAR-LIKE, PAPER | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 25% CELLULOSE TAR |
| 2008050883 | ST | 05/07/2008 | X1276M : 2/3 UNIT RELOC. EXTER. WALL EAST | HOMOGENEOUS; NON-FRIABLE; BLACK; BARRIER PAPER; TAR-LIKE, PAPER | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 25% CELLULOSE TAR |
| 2008050884 | ST | 05/07/2008 | A1262W : STAND/CLSRM/RELOC. EXTER. WALL SOUTH | HOMOGENEOUS; NON-FRIABLE; BLACK; BARRIER PAPER; TAR-LIKE, PAPER | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25% CELLULOSE TAR |
| 2008050885 | ST | 05/07/2008 | A1262W : STAND/CLSRM/RELOC. EXTER. WALL EAST | HOMOGENEOUS; NON-FRIABLE; BLACK; BARRIER PAPER; TAR-LIKE, PAPER | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25% CELLULOSE TAR |
| 2008050886 | ST | 05/07/2008 | A1262W : STAND/CLSRM/RELOC. EXTER. WALL NORTH | HOMOGENEOUS; NON-FRIABLE; BLACK; BARRIER PAPER; TAR-LIKE, PAPER | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25% CELLULOSE TAR |
| 2008050887 | ST | 05/07/2008 | X2383P : 2/3 UNIT RELOC. EXTER. WALL SOUTH | HOMOGENEOUS; NON-FRIABLE; BLACK; BARRIER PAPER; TAR-LIKE, PAPER | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 25% CELLULOSE TAR |
| 2008050888 | ST | 05/07/2008 | X2383P : 2/3 UNIT RELOC. EXTER. WALL NORTH | HOMOGENEOUS; NON-FRIABLE; BLACK; BARRIER PAPER; TAR-LIKE, PAPER | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 25% CELLULOSE TAR |
| 2008050889 | ST | 05/07/2008 | X2383P : 2/3 UNIT RELOC. EXTER. WALL EAST | HOMOGENEOUS; NON-FRIABLE; BLACK; BARRIER PAPER; TAR-LIKE, PAPER | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 25% CELLULOSE TAR |

Lab Supervisor Signature and Date: 5/8/08

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government.
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# Point Count Report

| | | | |
|---|---|---|---|
| **Report No:** | 121343 | **Client:** | LAUSD<br>1240 S. Naomi Ave<br>Los Angeles, CA 90021 |
| **Date:** | May 27, 2008 | | |
| **Date Analyzed:** | May 27, 2008 | | |
| **Date Sampled:** | 5/2/08 by Steven Modtland | **Attention:** | Jairo Lopez |
| | | **Reference:** | San Pedro HS; Code: 8850 ; 23.05208- CCTV Project - 28502 |
| **Subject:** | Polarized Light Microscopy Analysis for Asbestos | 9 | Samples (1000 Point Count) |
| **Methodology:** | "Method for Determination of Asbestos in Bulk Building Materials." EPA 600/R-93/116 M | | |
| **Accredited:** | National Institute of Standards and Technology (NVLAP) #101218 | | |
| **Certified:** | California Department of Health Services Environmental Testing Laboratory ELAP 1119<br>County Sanitation Districts of Los Angeles County, Lab ID No. 10120 | | |

Quality Control Sample (SRM 1866 Glass Fibers as the blank): None Detected

| LAUSD ID NUMBER | SAMPLE ID NUMBER | % REDUCTION | TOTAL ASBESTOS |
|---|---|---|---|
| 0805-0881 | B-13 | 99% | LESS THAN 0.1% |
| 0805-0882 | B-14 | 99% | LESS THAN 0.1% |
| 0805-0883 | B-15 | 99% | LESS THAN 0.1% |
| 0805-0887 | B-19 | 97% | LESS THAN 0.1% |
| 0805-0888 | B-20 | 96% | LESS THAN 0.1% |
| 0805-0889 | B-21 | 78% | LESS THAN 0.1% |
| 0805-0890 | B-22 | 96% | LESS THAN 0.1% |
| 0805-0891 | B-23 | 96% | LESS THAN 0.1% |
| 0805-0892 | B-24 | 97% | LESS THAN 0.1% |

*Gravimetric analysis. Samples ashed and acid dissolution.
Analytical Sensitivity: 0.1%

Optical Microscopist

B.M. Kolk, Laboratory Director

BMK/mt

The EPA method is a semi-quantitative procedure. The detection limit is between 0.1 - 1% by area and is dependent upon the size of the asbestos fibers, the means of sampling and the matrix of the sampled material.

The test results reported are for the sample(s) delivered to us and may not represent the entire material from which the samples was taken. The EPA recommends three samples or more be taken from a "homogenous sampling area" before friable material is considered non-asbestos-containing.

** Negative floor tile samples may contain significant amounts (>1%) of very thin asbestos fibers which cannot be detected by PLM. Confirmation by XRD or TEM is recommended by the EPA (Federal Register Vol. 59, No. 146).

s report, from a NIST-accredited laboratory through NVLAP, must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. government. This port shall not be reproduced, except in full, without the written approval of EMS Laboratories.

P.14/21
TO 15626806297
MAY-08-2008 17:05 FROM

# OEHS ASBESTOS BULK SAMPLE SUBMITTAL

28503

SITE NAME San Pedro HS CODE 8050 PROJECT 23.05208 - CCTV Project

SAMPLED BY Steven Medland DEPT. Pancras, Inc. TEL. NO. 562-860-2869 DATE SAMPLED 5/2/08

Fill in all information legibly and precisely. Sampler should make a copy before submitting to the lab. USE BLACK/BLUE INK ONLY.
Original to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 0805-0893 | B-25 | Z0182S | 2-Story Relocatable | Exterior Wall | South | Moisture barrier paper behind exterior stucco | YES (NO) |
| 0805-0894 | B-26 | ↓ | ↓ | ↓ | East | ↓ | YES (NO) |
| 0805-0895 | B-27 | ↓ | ↓ | ↓ | North | ↓ | YES (NO) |
| 0805-0896 | B-28 | ↓ | ↓ | Exterior - 2nd Floor Arcade | West | Moisture barrier paper above exterior stucco | YES (NO) |
| 0805-0897 | B-29 | ↓ | ↓ | ↓ | ↓ | ↓ | YES (NO) |
| 0805-0898 | B-30 | ↓ | ↓ | ↓ | ↓ | ↓ | YES (NO) |
| 0805-0899 | B-31 | X2384P | 2/3 Unit Relocatable | Exterior Wall | South | Exterior Stucco | YES (NO) |
| 0805-0900 | B-32 | ↓ | ↓ | ↓ | West | ↓ | YES (NO) |
| 0805-0901 | B-33 | ↓ | ↓ | ↓ | North | ↓ | YES (NO) |
| 0805-0902 | B-34 | 002BAJ | Auditorium | Exterior Wall | South | Exterior Stucco | YES (NO) |
| 0805-0903 | B-35 | ↓ | ↓ | ↓ | North | ↓ | YES (NO) |
| 0805-0904 | B-36 | ↓ | ↓ | ↓ | ↓ | ↓ | YES (NO) |

| DATE: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 5/6/08 | 1:25 PM | Steven Medland | Pancras, Inc | 12 |
| 5/7/08 | 7:15am | Omar Arguelo | Pancras, Inc | 12 |
| 5/8/08 | 7:15 | Jairo Lopez | ATU | 12 |
| 5-21-08 | 12:25PM | JAIRO LOPEZ | ATU-19 | 12 |
| 5-21-08 | 1:15PM | Meaghan Truong | EMS Labs | 12 |

Bond Funded: Yes / No (Circle One)

Type of Bond: 23.05208

Job Cost #:

Other Than Bond Describe:

Maintenance & Operations:

Deferred Maintenance:

Other:

bulk sample submittal for complex 3/HMM.xls

Los Angeles U[illegible] School District
Office of Envi[illegible]ntal Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bul[illegible]ple Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

N[illegible] LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 05/07/2008



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008050893 | ST | 05/08/2008 | Z0182S : 2 STORY RELOC. EXTER. WALL SOUTH | HOMOGENEOUS; NON-FRIABLE; BLACK; BARRIER PAPER; TAR-LIKE, PAPER | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40% CELLULOSE TAR |
| 2008050894 | ST | 05/08/2008 | Z0182S : 2 STORY RELOC. EXTER. WALL EAST | HOMOGENEOUS; NON-FRIABLE; BLACK; BARRIER PAPER; TAR-LIKE, PAPER | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40% CELLULOSE TAR |
| 2008050895 | ST | 05/08/2008 | Z0182S : 2 STORY RELOC. EXTER. WALL NORTH | HOMOGENEOUS; NON-FRIABLE; BLACK; BARRIER PAPER; TAR-LIKE, PAPER | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40% CELLULOSE TAR |
| 2008050896 | ST | 05/08/2008 | Z0182S : 2 STORY RELOC. EXTER/2ND FLR. ARCADE WEST | HOMOGENEOUS; NON-FRIABLE; BROWN; BARRIER PAPER; TAR-LIKE, PAPER | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90% CELLULOSE TAR |
| 2008050897 | ST | 05/08/2008 | Z0182S : 2 STORY RELOC. EXTER/2ND FLR. ARCADE WEST | HOMOGENEOUS; NON-FRIABLE; BROWN; BARRIER PAPER; TAR-LIKE, PAPER | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90% CELLULOSE TAR |
| 2008050898 | ST | 05/08/2008 | Z0182S : 2 STORY RELOC. EXTER/2ND FLR. ARCADE WEST | HOMOGENEOUS; NON-FRIABLE; BROWN; BARRIER PAPER; TAR-LIKE, PAPER | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90% CELLULOSE TAR |
| 2008050899-A | ST | 05/08/2008 | X2384P : 2/3 UNIT RELOC. EXTER. WALL SOUTH | HOMOGENEOUS; NON-FRIABLE; BROWN; COATING; COATED MATERIAL | <1 | 0 | 0 | 0 | 0 | 0 | <1 | ORG.MATERIAL, PAINT, ROCK, SAND |
| 2008050899-B | ST | 05/08/2008 | X2384P : 2/3 UNIT RELOC. EXTER. WALL SOUTH | HOMOGENEOUS; NON-FRIABLE; GRAY; STUCCO; CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ORG.MATERIAL, ROCK, SAND |
| 2008050900-A | ST | 05/08/2008 | X2384P : 2/3 UNIT RELOC. EXTER. WALL WEST | HOMOGENEOUS; NON-FRIABLE; BROWN; COATING; COATED MATERIAL | <1 | 0 | 0 | 0 | 0 | 0 | <1 | CARBONATES, ORG.MATERIAL, PAINT, ROCK, SAND |

Lab Supervisor Signature and Date: [signature] 5/8/08

Signature of Analyst: [signature]

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government.
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Los Angeles U[illegible] School District
Office of Envi[illegible]ntal Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bul[illegible]ple Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NV[illegible] LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 05/07/2008



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008050900-B | ST | 05/08/2008 | X2384P : 2/3 UNIT RELOC. EXTER. WALL WEST | HOMOGENEOUS; NON-FRIABLE; GRAY; STUCCO; CEMENTITIOUS | <1 | 0 | 0 | 0 | 0 | 0 | <1 | BINDER, CARBONATES, ORG.MATERIAL, ROCK, SAND |
| 2008050901-A | ST | 05/08/2008 | X2384P : 2/3 UNIT RELOC. EXTER. WALL NORTH | HOMOGENEOUS; NON-FRIABLE; BROWN; COATING; COATED MATERIAL | <1 | 0 | 0 | 0 | 0 | 0 | <1 | CARBONATES, ORG.MATERIAL, PAINT, ROCK, SAND |
| 2008050901-B | ST | 05/08/2008 | X2384P : 2/3 UNIT RELOC. EXTER. WALL NORTH | HOMOGENEOUS; NON-FRIABLE; GRAY; STUCCO; CEMENTITIOUS | <1 | 0 | 0 | 0 | 0 | 0 | <1 | BINDER, CARBONATES, ORG.MATERIAL, ROCK, SAND |
| 2008050902-A | ST | 05/08/2008 | 002BAJ : AUDIT. EXTER. WALL SOUTH | HOMOGENEOUS; NON-FRIABLE; BROWN; COATING; COATED MATERIAL | <1 | 0 | 0 | 0 | 0 | 0 | <1 | CARBONATES, ORG.MATERIAL, PAINT, ROCK, SAND |
| 2008050902-B | ST | 05/08/2008 | 002BAJ : AUDIT. EXTER. WALL SOUTH | HOMOGENEOUS; NON-FRIABLE; GRAY; STUCCO; CEMENTITIOUS | <1 | 0 | 0 | 0 | 0 | 0 | <1 | BINDER, CARBONATES, ORG.MATERIAL, ROCK, SAND |
| 2008050903-A | ST | 05/08/2008 | 002BAJ : AUDIT. EXTER. WALL NORTH | HOMOGENEOUS; NON-FRIABLE; BROWN; COATING; COATED MATERIAL | <1 | 0 | 0 | 0 | 0 | 0 | <1 | CARBONATES, ORG.MATERIAL, PAINT, ROCK, SAND |
| 2008050903-B | ST | 05/08/2008 | 002BAJ : AUDIT. EXTER. WALL NORTH | HOMOGENEOUS; NON-FRIABLE; GRAY; STUCCO; CEMENTITIOUS | <1 | 0 | 0 | 0 | 0 | 0 | <1 | BINDER, CARBONATES, ORG.MATERIAL, ROCK, SAND |
| 2008050904-A | ST | 05/08/2008 | 002BAJ : AUDIT. EXTER. WALL NORTH | HOMOGENEOUS; NON-FRIABLE; BROWN; COATING; COATED MATERIAL | <1 | 0 | 0 | 0 | 0 | 0 | <1 | CARBONATES, ORG.MATERIAL, PAINT, ROCK, SAND |
| 2008050904-B | ST | 05/08/2008 | 002BAJ : AUDIT. EXTER. WALL NORTH | HOMOGENEOUS; NON-FRIABLE; GRAY; STUCCO; CEMENTITIOUS | <1 | 0 | 0 | 0 | 0 | 0 | <1 | BINDER, CARBONATES, ORG.MATERIAL, ROCK, SAND |

Lab Supervisor Signature and Date: [illegible] 5/8/08

Signature of Analyst: [illegible]

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government.
This report may not be reproduced except in its entirety.

| | | | |
|---|---|---|---|
| **Report No:** | 121335 | **Client:** | LAUSD |
| **Date:** | May 27, 2008 | | 1240 S. Naomi Ave |
| **Date Analyzed:** | May 23, 2008 | | Los Angeles, CA 90021 |
| **Date Sampled:** | 5/2/08 by Steven Modtland | **Attention:** | Jairo Lopez |
| | | **Reference:** | San Pedro HS; Code: 8850 ; 23.05208- CCTV Project - 28503 |
| **Subject:** | Polarized Light Microscopy Analysis for Asbestos | 6 | Samples (1000 Point Count) |

**Methodology:** "Method for Determination of Asbestos in Bulk Building Materials." EPA 600/R-93/116 M

**Accredited:** National Institute of Standards and Technology (NVLAP) #101218

**Certified:** California Department of Health Services Environmental Testing Laboratory ELAP 1119
County Sanitation Districts of Los Angeles County, Lab ID No. 10120

Quality Control Sample (SRM 1866 Glass Fibers as the blank): None Detected

| LAUSD ID NUMBER | SAMPLE ID NUMBER | % REDUCTION | TOTAL ASBESTOS |
|---|---|---|---|
| 0805-0899 | B-31 | 32% | 0.14% |
| 0805-0900 | B-32 | 21% | NOT ANALYSED STOP AT FIRST POSITIVE |
| 0805-0901 | B-33 | 24% | NOT ANALYSED STOP AT FIRST POSITIVE |
| 0805-0902 | B-34 | 19% | LESS THAN 0.1% |
| 0805-0903 | B-35 | 19% | LESS THAN 0.1% |
| 0805-0904 | B-36 | 23% | LESS THAN 0.1% |

*Gravimetric analysis. Samples ashed and acid dissolution.
Analytical Sensitivity: 0.1%

Optical Microscopist

BMK/mt

B.M. Kolk, Laboratory Director

The EPA method is a semi-quantitative procedure. The detection limit is between 0.1 - 1% by area and is dependent upon the size of the asbestos fibers, the means of sampling and the matrix of the sampled material.

The test results reported are for the sample(s) delivered to us and may not represent the entire material from which the samples was taken. The EPA recommends three samples or more be taken from a "homogenous sampling area" before friable material is considered non-asbestos-containing.

** Negative floor tile samples may contain significant amounts (>1%) of very thin asbestos fibers which cannot be detected by PLM. Confirmation by XRD or TEM is recommended by the EPA (Federal Register Vol. 59, No. 146).

This report, from a NIST-accredited laboratory through NVLAP, must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. government. This report shall not be reproduced, except in full, without the written approval of EMS Laboratories.

# OEHS ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME San Pedro HS CODE 8850 PROJECT 23.05208 - CCTV Project 28504

SAMPLED BY Steven Mockford DEPT. Parsons, Inc TEL. NO. 562-860-2869 DATE SAMPLED 5/2/08

Fill in all information legibly and precisely. Sampler should make a copy before submitting to the lab. USE BLACK/BLUE INK ONLY.
Original to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 0805-0905 | B-37 | 002BAS | Auditorium | Exterior Wall | South | moisture barrier paper behind exterior stucco | YES (NO) |
| 0805-0906 | B-38 | ↓ | ↓ | ↓ | ↓ | ↓ | YES (NO) |
| 0805-0907 | B-39 | ↓ | ↓ | ↓ | North | ↓ | YES (NO) |
| 0805-0908 | B-40 | 015 DCS | Shop | Exterior Wall | ↓ | ↓ | YES (NO) |
| 0805-0909 | B-41 | ↓ | ↓ | ↓ | East | Darkcoat on concrete | YES (NO) |
| 0805-0910 | B-42 | ↓ | ↓ | ↓ | North | ↓ | YES (NO) |
| 0805-0911 | B-43 | ↓ | ↓ | ↓ | ↓ | ↓ | YES (NO) |
| 0805-0912 | B-44 | ↓ | ↓ | ↓ | West | moisture barrier paper behind exterior stucco | YES (NO) |
| 0805-0913 | B-45 | ↓ | ↓ | ↓ | South | ↓ | YES (NO) |
| 0805-0914 | B-46 | 001 CBS | Industrial Arts | Exterior Wall | East | ↓ | YES (NO) |
| 0805-0915 | B-47 | ↓ | ↓ | ↓ | South | Exterior Stucco | YES (NO) |
| 0805-0916 | B-48 | ↓ | ↓ | ↓ | East | ↓ | YES (NO) |
| | | | | | North | ↓ | YES (NO) |

| DATE: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 5/6/08 | 1:35 PM | Steven Mockford | Parsons, Inc | 12 |
| 5/7/08 | 7:15 am | Omar Arguelta | Parsons, Inc | 12 |
| 5/7/08 | 7:15 | [illegible] | [illegible] | [illegible] |
| 5-21-08 | 12:25 P.M. | JAIRO LOPEZ | ATU-19 | [illegible] |
| 5-21-08 | 1:15 P.M. | Meaghan Truong | EHS Labs | 12 |

Bond Funded: Yes / No (Circle One)

Type of Bond: 23.05208

Job Cost #:

Other Than Bond Describe:

Maintenance & Operations:

Deferred Maintenance:

Other:

bulk sample submittal for comp 8/1994.xls

P. 17/21

TO 15526806297

MAY-08-2008 17:06 FROM

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP Lab# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 05/07/2008



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008050905 | RC | 05/07/2008 | 002BAJ : AUDIT. EXTER. WALL SOUTH | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; BARRIER PAPER; PAPER WITH TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90% CELLULOSE DEBRIS, TAR |
| 2008050906 | RC | 05/07/2008 | 002BAJ : AUDIT. EXTER. WALL NORTH | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; BARRIER PAPER; PAPER WITH TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90% CELLULOSE DEBRIS, TAR |
| 2008050907 | RC | 05/07/2008 | 002BAJ : AUDIT. EXTER. WALL NORTH | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; BARRIER PAPER; PAPER WITH TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90% CELLULOSE DEBRIS, TAR |
| 2008050908 | RC | 05/07/2008 | 015DCS : SHOP EXTER. WALL EAST | NON-HOMOGENEOUS; NON-FRIABLE; BEIGE/ YELLOW; DASHCOAT; COATED MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1% CELLULOSE CALCITE, CARBONATES, PAINT, QUARTZ, ROCK |
| 2008050909 | RC | 05/07/2008 | 015DCS : SHOP EXTER. WALL NORTH | NON-HOMOGENEOUS; NON-FRIABLE; BEIGE/ YELLOW; DASHCOAT; COATED MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1% CELLULOSE CALCITE, CARBONATES, PAINT, QUARTZ, ROCK |
| 2008050910 | RC | 05/07/2008 | 015DCS : SHOP EXTER. WALL NORTH | NON-HOMOGENEOUS; NON-FRIABLE; BEIGE/ YELLOW; DASHCOAT; COATED MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1% CELLULOSE CALCITE, CARBONATES, PAINT, QUARTZ, ROCK |
| 2008050911 | RC | 05/07/2008 | 015DCS : SHOP EXTER. WALL WEST | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ LT.GRAY; BARRIER PAPER; PAPER WITH TAR | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 90% CELLULOSE TAR |
| 2008050912 | RC | 05/07/2008 | 015DCS : SHOP EXTER. WALL SOUTH | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ LT.GRAY; BARRIER PAPER; PAPER WITH TAR | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 90% CELLULOSE TAR |
| 2008050913 | RC | 05/07/2008 | 015DCS : SHOP EXTER. WALL EAST | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ LT.GRAY; BARRIER PAPER; PAPER WITH TAR | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 90% CELLULOSE TAR |

Lab Supervisor Signature and Date: [signature] 5/8/08

Signature of Analyst: [signature]

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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Los Angeles Un[illegible]chool District
Office of Enviro[illegible]tal Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

## Asbestos Bulk [illegible]le Analysis
## Laboratory Report

**SAN PEDRO HS**
**8850**

NVL[illegible] AB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 05/07/2008



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008050914 | RC | 05/07/2008 | 001CBJ : INDUST. ARTS EXTER. WALL SOUTH | NON-HOMOGENEOUS; NON-FRIABLE; LT.GRAY/ OFF WHITE; STUCCO; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE CALCITE, CARBONATES, PAINT, QUARTZ, ROCK |
| 2008050915 | RC | 05/07/2008 | 001CBJ : INDUST. ARTS EXTER. WALL EAST | NON-HOMOGENEOUS; NON-FRIABLE; LT.GRAY/ OFF WHITE; STUCCO; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE CALCITE, CARBONATES, PAINT, QUARTZ, ROCK |
| 2008050916 | RC | 05/07/2008 | 001CBJ : INDUST. ARTS EXTER. WALL NORTH | NON-HOMOGENEOUS; NON-FRIABLE; LT.GRAY/ OFF WHITE; STUCCO; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% CELLULOSE CALCITE, CARBONATES, PAINT, QUARTZ, ROCK |

Lab Supervisor Signature and Date: [signature] 5/8/08

Signature of Analyst: [signature]

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government.
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# Point Count Report

| | | | |
|---|---|---|---|
| **Report No:** | 121340 | **Client:** | LAUSD<br>1240 S. Naomi Ave<br>Los Angeles, CA 90021 |
| **Date:** | May 27, 2008 | | |
| **Date Analyzed:** | May 23, 2008 | | |
| **Date Sampled:** | 5/2/08 by Steven Modtland | **Attention:** | Jairo Lopez |
| | | **Reference:** | San Pedro HS; Code: 8850 ; 23.05208- CCTV Project - 28504 |
| **Subject:** | Polarized Light Microscopy Analysis for Asbestos | 6 | Samples (1000 Point Count) |
| **Methodology:** | "Method for Determination of Asbestos in Bulk Building Materials." EPA 600/R-93/116 M | | |
| **Accredited:** | National Institute of Standards and Technology (NVLAP) #101218 | | |
| **Certified:** | California Department of Health Services Environmental Testing Laboratory ELAP 1119<br>County Sanitation Districts of Los Angeles County, Lab ID No. 10120 | | |

Quality Control Sample (SRM 1866 Glass Fibers as the blank): None Detected

| LAUSD ID NUMBER | SAMPLE ID NUMBER | % REDUCTION | TOTAL ASBESTOS |
|---|---|---|---|
| 0805-0908 | B-40 | 39% | LESS THAN 0.1% |
| 0805-0909 | B-41 | 42% | LESS THAN 0.1% |
| 0805-0910 | B-42 | 44% | LESS THAN 0.1% |
| 0805-0911 | B-43 | 99% | LESS THAN 0.1% |
| 0805-0912 | B-44 | 86% | LESS THAN 0.1% |
| 0805-0913 | B-45 | 98% | LESS THAN 0.1% |

*Gravimetric analysis. Samples ashed and acid dissolution.
Analytical Sensitivity: 0.1%

Optical Microscopist
BMK/mt

B.M. Kolk, Laboratory Director

The EPA method is a semi-quantitative procedure. The detection limit is between 0.1 - 1% by area and is dependent upon the size of the asbestos fibers, the means of sampling and the matrix of the sampled material.

The test results reported are for the sample(s) delivered to us and may not represent the entire material from which the samples was taken. The EPA recommends three samples or more be taken from a "homogenous sampling area" before friable material is considered non-asbestos-containing.

** Negative floor tile samples may contain significant amounts (>1%) of very thin asbestos fibers which cannot be detected by PLM. Confirmation by XRD or TEM is recommended by the EPA (Federal Register Vol. 59, No. 146).

This report, from a NIST-accredited laboratory through NVLAP, must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. government. This report shall not be reproduced, except in full, without the written approval of EMS Laboratories.

P.05/21
TO 15628605297
MAY-08-2008 17:04 FROM

# OEHS ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME San Pedro HS CODE 0850 PROJECT 23-05208 - CCTV Project 28505

SAMPLED BY Steven Maitland DEPT. Parness, Inc TEL. NO. 562-896-2869 DATE SAMPLED 5/2/08

Fill in all information legibly and precisely. Sampler should make a copy before submitting to the lab. USE BLACK/BLUE INK ONLY.
Original to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 0805-0917 | B-49 | 001CBJ | Industrial Arts | Exterior Wall | South | moisture barrier paper behind exterior stucco | YES (NO) |
| 0805-0918 | B-50 | ↓ | ↓ | ↓ | East | ↓ | YES (NO) |
| 0805-0919 | B-51 | | | | North | | YES (NO) |
| 0805-0920 | B-52 | | | | North | | YES (NO) |
| 0805-0921 | B-53 | | | | West | | YES (NO) |
| 0805-0922 | B-54 | | | | North | | YES (NO) |
| 0805-0923 | B-55 | 006CBJ | P.E. Building | Exterior Wall | West | Dashcoat on concrete | YES (NO) |
| 0805-0924 | B-56 | ↓ | ↓ | ↓ | North | ↓ | YES (NO) |
| 0805-0925 | B-57 | | | | East | | YES (NO) |
| 0805-0926 | B-58 | 004BDJ | Admin & Classrooms | Exterior Wall | South | Dashcoat on concrete | YES (NO) |
| 0805-0927 | B-59 | ↓ | ↓ | ↓ | West | ↓ | YES (NO) |
| 0805-0928 | B-60 | | | | East | | YES (NO) |

| DATE: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 5/6/08 | 11:35 pm | Steven Maitland | Parness, Inc. | 12 |
| 5/7/08 | 7:16 am | Omar Arguelta | Parness, Inc. | 12 |
| 5/16/08 | 7:16 | | | 12 |
| 5-21-08 | 12:32 P.M. | JAIRO LOPEZ | ATU-19 | 12 |
| 5-21-08 | 1:15 P.M. | Meaghan Truong | EMS Labs | 13 |

Bond Funded: Yes / No (Circle One)

Type of Bond: 23.05208

Job Cost #:

Other Than Bond Describe:

Maintenance & Operations:

Deferred Maintenance:

Other:

Los Angeles Un[illegible]School District
Office of Envir[illegible]ital Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

# Asbestos Bulk [illegible]le Analysis
## Laboratory Report

**SAN PEDRO HS**
**8850**

NV[illegible]AB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 05/07/2008



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008050917 | RC | 05/07/2008 | 001CBJ : INDUST. ART EXTER. WALL SOUTH | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ LT.GRAY; BARRIER PAPER; PAPER WITH TAR | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 90% CELLULOSE TAR |
| 2008050918 | RC | 05/07/2008 | 001CBJ : INDUST. ART EXTER. WALL EAST | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ LT.GRAY; BARRIER PAPER; PAPER WITH TAR | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 90% CELLULOSE TAR |
| 2008050919 | RC | 05/07/2008 | 001CBJ : INDUST. ART EXTER. WALL NORTH | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ LT.GRAY; BARRIER PAPER; PAPER WITH TAR | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 90% CELLULOSE TAR |
| 2008050920 | RC | 05/07/2008 | 001CBJ : INDUST. ART EXTER. WALL NORTH | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ LT.GRAY; BARRIER PAPER; PAPER WITH TAR | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 90% CELLULOSE TAR |
| 2008050921 | RC | 05/07/2008 | 001CBJ : INDUST. ART EXTER. WALL WEST | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ LT.GRAY; BARRIER PAPER; PAPER WITH TAR | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 90% CELLULOSE TAR |
| 2008050922 | RC | 05/07/2008 | 001CBJ : INDUST. ART EXTER. WALL NORTH | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ LT.GRAY; BARRIER PAPER; PAPER WITH TAR | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 90% CELLULOSE TAR |
| 2008050923 | RC | 05/07/2008 | 006CBJ : P. E. BLD. EXTER. WALL WEST | NON-HOMOGENEOUS; NON-FRIABLE; LT.GRAY/ OFF WHITE/ TAN; DASHCOAT; COATED MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1% CELLULOSE CALCITE, CARBONATES, PAINT, QUARTZ |
| 2008050924 | RC | 05/07/2008 | 006CBJ : P. E. BLD. EXTER. WALL NORTH | NON-HOMOGENEOUS; NON-FRIABLE; LT.GRAY/ OFF WHITE/ TAN; DASHCOAT; COATED MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1% CELLULOSE CALCITE, CARBONATES, PAINT, QUARTZ |

Lab Supervisor Signature and Date: [signature] 5/8/08

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVI AB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 05/07/2008



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008050925 | RC | 05/07/2008 | 006CBJ : P. E. BLD. EXTER. WALL EAST | NON-HOMOGENEOUS; NON-FRIABLE; LT.GRAY/ OFF WHITE/ TAN; DASHCOAT; COATED MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1% CELLULOSE CALCITE, CARBONATES, PAINT, QUARTZ |
| 2008050926 | RC | 05/07/2008 | 004BDJ : ADMIN/CLSRM. EXTER. WALL SOUTH | NON-HOMOGENEOUS; NON-FRIABLE; LT.GRAY/ OFF WHITE/ TAN; DASHCOAT; COATED MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1% CELLULOSE CALCITE, CARBONATES, PAINT, QUARTZ |
| 2008050927 | RC | 05/07/2008 | 004BDJ : ADMIN/CLSRM. EXTER. WALL WEST | NON-HOMOGENEOUS; NON-FRIABLE; LT.GRAY/ OFF WHITE/ TAN; DASHCOAT; COATED MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1% CELLULOSE CALCITE, CARBONATES, PAINT, QUARTZ |
| 2008050928 | RC | 05/07/2008 | 004BDJ : ADMIN/CLSRM. EXTER. WALL EAST | NON-HOMOGENEOUS; NON-FRIABLE; LT.GRAY/ OFF WHITE/ TAN; DASHCOAT; COATED MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1% CELLULOSE CALCITE, CARBONATES, PAINT, QUARTZ |

Lab Supervisor Signature and Date: [signature] 5/8/08

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government.
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# Point Count Report

| | | | |
|---|---|---|---|
| **Report No:** | 121337 | **Client:** | LAUSD<br>1240 S. Naomi Ave<br>Los Angeles, CA 90021 |
| **Date:** | May 27, 2008 | | |
| **Date Analyzed:** | May 27, 2008 | | |
| **Date Sampled:** | 5/2/08 by Steven Modtland | **Attention:** | Jairo Lopez |
| | | **Reference:** | San Pedro HS; Code: 8850 ; 23.05208- CCTV Project - 28505 |
| **Subject:** | Polarized Light Microscopy Analysis for Asbestos | 9 | Samples (1000 Point Count) |
| **Methodology:** | "Method for Determination of Asbestos in Bulk Building Materials." EPA 600/R-93/116 M | | |
| **Accredited:** | National Institute of Standards and Technology (NVLAP) #101218 | | |
| **Certified:** | California Department of Health Services Environmental Testing Laboratory ELAP 1119<br>County Sanitation Districts of Los Angeles County, Lab ID No. 10120 | | |

Quality Control Sample (SRM 1866 Glass Fibers as the blank): None Detected

| LAUSD ID NUMBER | SAMPLE ID NUMBER | % REDUCTION | TOTAL ASBESTOS |
|---|---|---|---|
| 0805-0917 | B-49 | 98% | LESS THAN 0.1% |
| 0805-0918 | B-50 | 96% | LESS THAN 0.1% |
| 0805-0919 | B-51 | 99% | LESS THAN 0.1% |
| 0805-0920 | B-52 | 99% | LESS THAN 0.1% |
| 0805-0921 | B-53 | 98% | LESS THAN 0.1% |
| 0805-0922 | B-54 | 98% | LESS THAN 0.1% |
| 0805-0923 | B-55 | 57% | LESS THAN 0.1% |
| 0805-0924 | B-56 | 62% | LESS THAN 0.1% |
| 0805-0925 | B-57 | 57% | LESS THAN 0.1% |

*Gravimetric analysis. Samples ashed and acid dissolution.
Analytical Sensitivity: 0.1%

Optical Microscopist

BMK/mt

B.M. Kolk, Laboratory Director

The EPA method is a semi-quantitative procedure. The detection limit is between 0.1 - 1% by area and is dependent upon the size of the asbestos fibers, the means of sampling and the matrix of the sampled material.

The test results reported are for the sample(s) delivered to us and may not represent the entire material from which the samples was taken. The EPA recommends three samples or more be taken from a "homogenous sampling area" before friable material is considered non-asbestos-containing.

** Negative floor tile samples may contain significant amounts (>1%) of very thin asbestos fibers which cannot be detected by PLM. Confirmation by XRD or TEM is recommended by the EPA (Federal Register Vol. 59, No. 146).

is report, from a NIST-accredited laboratory through NVLAP, must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. government. This port shall not be reproduced, except in full, without the written approval of EMS Laboratories.

# OEHS ASBESTOS BULK SAMPLE SUBMITTAL

28506

SITE NAME San Pedro HS CODE 8850 PROJECT 23.05208 - CCTV Project

SAMPLED BY Steven Modtland DEPT. Ramcon, Inc. TEL. NO. 562-860-2869 DATE SAMPLED 5/2/08

Fill in all information legibly and precisely. Sampler should make a copy before submitting to the lab. **USE BLACK/BLUE INK ONLY.**
Original to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 0805-0929 | B-61 | 013BCP | Classroom Bldg #2 | Ceiling Space | Northeast | Roofing debris | YES (NO) |
| 0805-0930 | B-62 | ↓ | ↓ | ↓ | West | ↓ | YES (NO) |
| 0805-0931 | B-63 | ↓ | ↓ | ↓ | West | ↓ | YES (NO) |
| 0805-0932 | B-64 | ↓ | ↓ | Exterior Wall | West | Dashcoat on concrete | YES (NO) |
| 0805-0933 | B-65 | ↓ | ↓ | ↓ | East | ↓ | YES (NO) |
| 0805-0934 | B-66 | ↓ | ↓ | ↓ | West | ↓ | YES (NO) |
| 0805-0935 | B-67 | ↓ | ↓ | Exterior | North | Dashcoat on overhang | YES (NO) |
| 0805-0936 | B-68 | ↓ | ↓ | ↓ | Southwest | ↓ | YES (NO) |
| 0805-0937 | B-69 | ↓ | ↓ | ↓ | Northwest | ↓ | YES (NO) |
| 0805-0938 | B-70 | ↓ | ↓ | Exterior wall | North | moisture barrier paper behind exterior stucco | YES (NO) |
| 0805-0939 | B-71 | ↓ | ↓ | ↓ | ↓ | ↓ | YES (NO) |
| 0805-0940 | B-72 | ↓ | ↓ | ↓ | ↓ | ↓ | YES (NO) |

| DATE: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 5/6/08 | 1:35 PM | Steven Modtland | Ramcon, Inc. | 12 |
| 5/7/08 | 7:16 am | Omar Arqueta | Ramcon, Inc. | 12 |
| 5/7/08 | 7:16 | SOHA TE | | 2 |
| | | | | |
| | | | | |

Bond Funded: (Yes) / No (Circle One)

Type of Bond: 23.05208

Job Cost #:

Other Than Bond Describe:

Maintenance & Operations:

Deferred Maintenance:

Other:

Los Angeles [illegible] School District
Office of Env[illegible]mental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

## Asbestos Bu[illegible]mple Analysis
## Laboratory Report

SAN PEDRO HS
8850

[illegible] LAB# 101505-0
Method EPA/600/R-93/[illegible](MOD) July 1993
Date Received: 05/07/2008



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008050929 | NLI | 05/07/2008 | 013BCP : CLSRM/BLD. 2<br>CEILING SPACE<br>NE | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK/ BROWN;<br>ROOFING;<br>TAR-LIKE FIBROUS/<br>COATED | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE<br>TAR |
| | | | | | COMMENT(S): VERIFIED BY MS | | | | | | | |
| 2008050930 | NLI | 05/07/2008 | 013BCP : CLSRM/BLD. 2<br>CEILING SPACE<br>WEST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK/ BROWN;<br>ROOFING;<br>TAR-LIKE FIBROUS/<br>COATED | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 10% CELLULOSE<br>TAR |
| | | | | | COMMENT(S): DIFFERENT FROM 200805/0929 & 0931 | | | | | | | |
| 2008050931 | NLI | 05/07/2008 | 013BCP : CLSRM/BLD. 2<br>CEILING SPACE<br>WEST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK/ BROWN;<br>ROOFING;<br>TAR-LIKE FIBROUS/<br>COATED | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE<br>TAR |
| | | | | | COMMENT(S): VERIFIED BY MS | | | | | | | |
| 2008050932 | NLI | 05/07/2008 | 013BCP : CLSRM/BLD. 2<br>EXTER. WALL<br>WEST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE;<br>DASHCOAT;<br>COATED MATERIAL | 2 | 0 | 0 | 0 | 0 | 0 | 2 | PAINT, SAND |
| 2008050933 | NLI | 05/07/2008 | 013BCP : CLSRM/BLD. 2<br>EXTER. WALL<br>EAST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE;<br>DASHCOAT;<br>COATED MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | PAINT, SAND |
| 2008050934 | NLI | 05/07/2008 | 013BCP : CLSRM/BLD. 2<br>EXTER. WALL<br>WEST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE;<br>DASHCOAT;<br>COATED MATERIAL | 2 | 0 | 0 | 0 | 0 | 0 | 2 | PAINT, SAND |
| 2008050935 | NLI | 05/07/2008 | 013BCP : CLSRM/BLD. 2<br>EXTERIOR<br>NORTH | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE;<br>DASHCOAT;<br>COATED MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | PAINT, SAND |
| 2008050936 | NLI | 05/07/2008 | 013BCP : CLSRM/BLD. 2<br>EXTERIOR<br>SW | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE;<br>DASHCOAT;<br>COATED MATERIAL | 2 | 0 | 0 | 0 | 0 | 0 | 2 | PAINT, SAND |

Lab Supervisor Signature and Date: [illegible] 5/9/08

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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Los Angeles [illegible] School District
Office of Environmental Health and Safety
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Los Angeles, CA 90015
(213)745-1138

**Asbestos Bul[illegible]mple Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

N [illegible] LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 05/07/2008



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008050937 | NLI | 05/07/2008 | 013BCP : CLSRM/BLD. 2 EXTERIOR NW | NON-HOMOGENEOUS; NON-FRIABLE; BEIGE; DASHCOAT; COATED MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | PAINT, SAND |
| 2008050938 | NLI | 05/07/2008 | 013BCP : CLSRM/BLD. 2 EXTER. WALL NORTH | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ BROWN; BARRIER PAPER; PAPER WITH TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40% CELLULOSE TAR |
| 2008050939 | NLI | 05/07/2008 | 013BCP : CLSRM/BLD. 2 EXTER. WALL NORTH | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ BROWN; BARRIER PAPER; PAPER WITH TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40% CELLULOSE TAR |
| 2008050940 | NLI | 05/07/2008 | 013BCP : CLSRM/BLD. 2 EXTER. WALL NORTH | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ BROWN; BARRIER PAPER; PAPER WITH TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40% CELLULOSE TAR |

Lab Supervisor Signature and Date: [illegible] 5/7/08

Signature of Analyst: [illegible]

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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# OEHS ASBESTOS BULK SAMPLE SUBMITTAL

SITE NAME San Pedro HS CODE 0850 PROJECT 23.05208- CCTV Project 28507

SAMPLED BY Steven Modtland DEPT. Parsons, Inc. TEL. NO. 562-860-2869 DATE SAMPLED 5/2/08

Fill in all information legibly and precisely. Sampler should make a copy before submitting to the lab. **USE BLACK/BLUE INK ONLY.**
Original to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 0805-0941 | B-73 | 013BeP | Classroom Building #2 | Exterior Hway | North | Exterior Stucco | YES (NO) |
| 0805-0942 | B-74 | ↓ | ↓ | ↓ | ↓ | ↓ | YES (NO) |
| 0805-0943 | B-75 | | | | | | YES (NO) |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

| DATE: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT/AREA: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 5/6/08 | 1:35 PM | Steven Modtland Sign | Parsons, Inc. | 3 |
| 5/7/08 | 7:17 am | Omar Arqueta Omar Arqueta | Parsons, Inc. | 3 |
| 5/7/08 | 7:17 | Soren TE | DSA | 3 |
| | | | | |
| | | | | |

Bond Funded: (Yes) / No (Circle One)

Type of Bond: 23.05208

Job Cost #:

Other Than Bond Describe:

Maintenance & Operations:

Deferred Maintenance:

Other:

Los Angeles U[illegible] School District
Office of Envi[illegible]ntal Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

## Asbestos Bull[illegible]ple Analysis
## Laborato[illegible]y Report

SAN PEDRO HS
8850

NV[illegible]AB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 05/07/2008



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008050941-A | NLI | 05/07/2008 | 013BCP : CLSRM/BLD. 2 EXTER. WALL NORTH | NON-HOMOGENEOUS; NON-FRIABLE; BEIGE; STUCCO/COATING; COATED MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | GYPSUM, PAINT |
| 2008050941-B | NLI | 05/07/2008 | 013BCP : CLSRM/BLD. 2 EXTER. WALL NORTH | NON-HOMOGENEOUS; NON-FRIABLE; WHITE; STUCCO/CEMENT; GRANULAR/ CEMENTITIOUS | 1 | 0 | 0 | 0 | 0 | 0 | 1 | BINDER, SAND |
| 2008050942-A | NLI | 05/07/2008 | 013BCP : CLSRM/BLD. 2 EXTER. WALL NORTH | NON-HOMOGENEOUS; NON-FRIABLE; BEIGE; STUCCO/COATING; COATED MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | GYPSUM, PAINT |
| 2008050942-B | NLI | 05/07/2008 | 013BCP : CLSRM/BLD. 2 EXTER. WALL NORTH | NON-HOMOGENEOUS; NON-FRIABLE; WHITE; STUCCO/CEMENT; GRANULAR/ CEMENTITIOUS | 1 | 0 | 0 | 0 | 0 | 0 | 1 | BINDER, SAND |
| 2008050943-A | NLI | 05/07/2008 | 013BCP : CLSRM/BLD. 2 EXTER. WALL NORTH | NON-HOMOGENEOUS; NON-FRIABLE; BEIGE; STUCCO/COATING; COATED MATERIAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | GYPSUM, PAINT |
| 2008050943-B | NLI | 05/07/2008 | 013BCP : CLSRM/BLD. 2 EXTER. WALL NORTH | NON-HOMOGENEOUS; NON-FRIABLE; WHITE; STUCCO/CEMENT; GRANULAR/ CEMENTITIOUS | 1 | 0 | 0 | 0 | 0 | 0 | 1 | BINDER, SAND |

Lab Supervisor Signature and Date: [illegible] 5/8/08

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

MARK 9-3-08

28821

SITE NAME: San Pedro S.H. CODE: 8850 PROJECT: Sample Kiln,Furnace brick and brick on pallet

SAMPLED BY: William Shelby DATE SAMPLED: 5/29/2008 DEPT. / CONSULTANT: Paint Dept. TEL. NO: 310- 808-1537

Fill in all information legibly and precisely. Sampler should make a copy before submitting samples to the lab. **USE BLACK/BLUE INK ONLY**
Original to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 0805-3617 | BFB -1 | 001CBJ | Industrial Arts Bldg. | Room 163 | West side of kiln | Boiler firewalls & brick | YES / (NO) |
| 0805-3618 | BFB -2 | 001CBJ | Industrial Arts Bldg. | Room 163 | East side of kiln | Boiler firewalls & brick | YES / (NO) |
| 0805-3619 | BFB -3 | 001CBJ | Industrial Arts Bldg. | Room 163 | West side of furnace | Boiler firewalls & brick | YES / (NO) |
| 0805-3620 | BFB -4 | 001CBJ | Industrial Arts Bldg. | Room 163 | East side of furnace | Boiler firewalls & brick | YES / (NO) |
| 0805-3621 | BFB -5 | 001CBJ | Industrial Arts Bldg. | Room 163 | Southwest corner of room | Boiler firewalls & brick | YES / (NO) |
| 0805-3622 | BFB -6 | 001CBJ | Industrial Arts Bldg. | Room 163 | Southwest corner of room | Boiler firewalls & brick | YES / (NO) |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |

| DATE: | Time: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | NO. OF SAMPLES |
|---|---|---|---|---|
| 5/29/2008 | 10:30 AM | William Shelby Asb.Bldg.Insp. William Shelby | Paint Dept. M&O 8 Paint Dept. | 6 |
| 5-30-08 | 3:45 | M-Martinez / DE LA | DE LA | 6 |
| | | | | |
| | | | | |

Bond Funded: Yes / (No)
Type of Bond:
Job Cost #:

Other Than Bond Describe
Maintenance & Operations:
Deferred Maintenance:
Other:

Los Angeles U[illegible]School District
Office of Enviro[illegible]ntal Health and Safety
1449 S. San Pedro St.
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(213)745-1138

**Asbestos Bulk [illegible]ple Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NV [illegible]AB# 101505-0
Method EPA/600/R-93/1[illegible](MOD) July 1993
Date Received: 05/30/2008



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008053617 | ST | 06/02/2008 | 001CBJ : INDUSTRIAL ARTS<br>RM 163<br>WEST SIDE OF KILN | HOMOGENEOUS; NON-FRIABLE; BLACK/ YELLOW; FIRE WALL; CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ORG.MATERIAL, ROCK, SAND |
| 2008053618 | ST | 06/02/2008 | 001CBJ : INDUSTRIAL ARTS<br>RM 163<br>EAST SIDE OF KILN | HOMOGENEOUS; NON-FRIABLE; BLACK/ YELLOW; FIRE WALL; CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ORG.MATERIAL, ROCK, SAND |
| 2008053619 | ST | 06/02/2008 | 001CBJ : INDUSTRIAL ARTS<br>RM 163<br>WEST SIDE OF FURNACE | HOMOGENEOUS; NON-FRIABLE; BLACK/ YELLOW; FIRE WALL; CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ORG.MATERIAL, ROCK, SAND |
| 2008053620 | ST | 06/02/2008 | 001CBJ : INDUSTRIAL ARTS<br>RM 163<br>EAST SIDE OF FURNACE | HOMOGENEOUS; NON-FRIABLE; BLACK/ YELLOW; FIRE WALL; CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ORG.MATERIAL, ROCK, SAND |
| 2008053621 | ST | 06/02/2008 | 001CBJ : INDUSTRIAL ARTS<br>RM 163<br>SOUTHWEST CORNER OF ROOM | HOMOGENEOUS; NON-FRIABLE; BLACK/ YELLOW; FIRE WALL; CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ORG.MATERIAL, ROCK, SAND |
| 2008053622 | ST | 06/02/2008 | 001CBJ : INDUSTRIAL ARTS<br>RM 163<br>SOUTHWEST CORNER OF ROOM | HOMOGENEOUS; NON-FRIABLE; BLACK/ YELLOW; FIRE WALL; CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ORG.MATERIAL, ROCK, SAND |

Lab Supervisor Signature and Date: [illegible] 6/3/08

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

M.R.P. 3-13-09

29652

SITE NAME: San Pedro S.H. CODE: 8850 PROJECT: Sample material inside Shop Kiln

SAMPLED BY: William Shelby DATE SAMPLED: 9/25/2008 DEPT. / CONSULTANT: Paint Dept. TEL. NO: 310- 808-1537

Fill in all information legibly and precisely. Sampler should make a copy before submitting samples to the lab. **USE BLACK/BLUE INK ONLY**
Original to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 0809-1200 | LOW -1 | 015 DCS | Shop Bldg. | Storage garage | North wall middle | Lining On Walls | YES / (NO) |
| 0809-1201 | LOW -2 | 015 DCS | Shop Bldg. | Storage garage | West wall middle | Lining On Walls | YES / (NO) |
| 0809-1202 | LOW -3 | 015 DCS | Shop Bldg. | Storage garage | East wall middle | Lining On Walls | YES / (NO) |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |

| DATE: | Time: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | NO. OF SAMPLES |
|---|---|---|---|---|
| 9/25/2008 | 12:30 PM | William Shelby Asb.Bldg.Insp William Shelby | Paint Dept. M&O 8 Paint Dept. | 3 |
| 9-25-08 | 3:0 | M- Martinez | OOHS | 3 |
| | | | | |
| | | | | |

Bond Funded: Yes / (No)
Type of Bond:
Job Cost #:

Other Than Bond Describe
Maintenance & Operations:
Deferred Maintenance:
Other:

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAB# 101505-0
Method EPA/600/R-93/116 (PLMD) July 1993
Date Received: 09/25/2008



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008091200 | RC | 09/26/2008 | 015DCS : SHOP BLD. STORAGE GARAGE NO. WALL/MIDDLE | NON-HOMOGENEOUS; NON-FRIABLE; BEIGE/ OFF WHITE; LINING MATERIAL; CHALKY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% CELLULOSE CALCITE, CARBONATES |
| 2008091201 | RC | 09/26/2008 | 015DCS : SHOP BLD. STORAGE GARAGE WEST WALL/MIDDLE | NON-HOMOGENEOUS; NON-FRIABLE; BEIGE/ OFF WHITE; LINING MATERIAL; CHALKY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% CELLULOSE CALCITE, CARBONATES |
| 2008091202 | RC | 09/26/2008 | 015DCS : SHOP BLD. STORAGE GARAGE EAST WALL/MIDDLE | NON-HOMOGENEOUS; NON-FRIABLE; BEIGE/ OFF WHITE; LINING MATERIAL; CHALKY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% CELLULOSE CALCITE, CARBONATES |

Lab Supervisor Signature and Date: 9/26/08

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government.
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ERIC DONNELL

16238 08 201

# LOS ANGELES UNIFIED SCHOOL DISTRICT
## OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

SITE NAME: San Pedro S.H. CODE: 8850 PROJECT: Sample mastic under wood floor 89178

SAMPLED BY: William Shelby DATE SAMPLED: 10/28/2008 DEPT. / CONSULTANT: Paint Dept. TEL. NO: 310- 808-1537

Fill in all information legibly and precisely. Sampler should make a copy before submitting samples to the lab. Original to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed. USE BLACK/BLUE INK ONLY

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 0810-0893 | Mastic -1 | 001CBJ | Industrial Arts Bldg. | Room 183 | Southwest corner | Mastic on wood | YES / (NO) |
| 0810-0894 | Mastic -2 | 001CBJ | Industrial Arts Bldg. | Room 183 | Southeast corner | Mastic on wood | YES / (NO) |
| 0810-0895 | Mastic -3 | 001CBJ | Industrial Arts Bldg. | Room 183 | Northeast corner | Mastic on wood | YES / (NO) |
| 0810-0896 | Mastic -4 | 001CBJ | Industrial Arts Bldg. | Room 183 | Northwest corner | Mastic on wood | YES / (NO) |
| 0810-0897 | Mastic -5 | 001CBJ | Industrial Arts Bldg. | Room 183 | Near middle of floor | Mastic on wood | YES / (NO) |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |

| DATE: | Time: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | NO. OF SAMPLES |
|---|---|---|---|---|
| 10/28/2008 | 10:00 AM | William Shelby Asb Bldg Insp 10/28/08 Shelby | Paint Dept. M&O 8 Paint Dept. | 5 |
| 10-30-08 | 3P | M. Martinez | OE HS | 5 |
| 11-12-08 | 1:55P.M. | JAIRO LOPEZ | ATU 79 | 5 |
| 11.12.08 | 1:55PM | Joania Forest | Hygeia | 5 |

Bond Funded: Yes / (No)
Type of Bond:
Job Cost #:

Other Than Bond Describe
Maintenance & Operations:
Deferred Maintenance:
Other:

5 MG

OE TO AT. CT.
11-7-08

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 10/30/2008



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008100893 | LN | 10/31/2008 | 001CBJ : INDUST. ARTS BLD. RM. 163 SW CORNER | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; TAR | <1 | 0 | 0 | 0 | 0 | 0 | <1 | DEBRIS, TAR |
| 2008100894 | LN | 10/31/2008 | 001CBJ : INDUST. ARTS BLD. RM. 163 SE CORNER | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; TAR | <1 | 0 | 0 | 0 | 0 | 0 | <1 | DEBRIS, TAR |
| 2008100895 | LN | 10/31/2008 | 001CBJ : INDUST. ARTS BLD. RM. 163 NE CORNER | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; TAR | <1 | 0 | 0 | 0 | 0 | 0 | <1 | DEBRIS, TAR |
| 2008100896 | LN | 10/31/2008 | 001CBJ : INDUST. ARTS BLD. RM. 163 NW CORNER | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; TAR | <1 | 0 | 0 | 0 | 0 | 0 | <1 | DEBRIS, TAR |
| 2008100897 | LN | 10/31/2008 | 001CBJ : INDUST. ARTS BLD. RM. 163 NEAR MIDDLE OF FLR. | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; TAR | <1 | 0 | 0 | 0 | 0 | 0 | <1 | DEBRIS, TAR |

Lab Supervisor Signature and Date: [signature] 10/31/08

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk "*" indicates preliminary results.

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Hygeia Laboratories Inc.
82 W. Sierra Madre Blvd
Sierra Madre, CA 91024
(626) 355-4711
(626) 355-4497 FAX

# Preliminary Analytical Results - by Point Counting X 1000 Pts. ___ 400 Pts.

To: SAIRO LOPEZ Of: LAUSD
From: Guillermo Hernandez Date 11-17-08 Time
Total # of pages: Urgent! Please deliver as soon as possible.
Client Job # 0810\0893-0897 Hygeia Ref. # 1623B 0B0201
ID: Pedestal Sample Mastic under Wood Floor Original Hygeia Ref. #

| Client ID # | Hygeia ID # | Asbestos % Chrysotile | Amosite | Crocidolite | Other | Non Detected | Comments |
|---|---|---|---|---|---|---|---|
| 0810-0893 | 115379 | <0.1 | | | | | |
| 0810-0894 | 80 | <0.1 | | | | | |
| 0810-0895 | 81 | <0.1 | | | | | |
| 0810-0896 | 82 | | | | | | INSUFFICIENT MASTIC for Point C. |
| 0810-0897 | 83 | <0.1 | | | | | |

Preliminary results are subject to management review.

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Hygeia Laboratories Inc.
82 W. Sierra Madre Blvd
Sierra Madre, CA 91024-2434
(626) 355-4711 (626) 355-4497 Fax

A.T.U. DEC02'08 145933

NIST / NVLAP Lab Code No. 102116-0
California ELAP Certificate No. 1269
New York ELAP Certificate No. 11017

# Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116 Point Count - 1000 Points

November 18, 2008

Mr. Jairo Lopez
LA Unified School District
1449 S. San Pedro
Los Angeles, CA 90015

Samples Analyzed: 4
Sampler: W. Shelby
Sample Condition: Acceptable

Hygeia Reference No.: **16238 08 0201**
Date Collected: October 28, 2008
Date Received: November 12, 2008
Date Analyzed: November 17, 2008

**Client Reference: 0810/0893-0897 San Pedro SH - Sample Mastic Under Wood Floor**

| Client Sample ID / Hygeia Sample ID | Sample Description / *Comments* | Detection Limit | Gravimetric Reduction | Analytical Results |
|---|---|---|---|---|
| **0810-0893** 1153079p | Mastic on wood | 0.04% | 45% organic<br>17% acid soluble | <0.1% chrysotile |
| **0810-0894** 1153080p | Mastic on wood | 0.05% | 43% organic<br>4% acid soluble | <0.1% chrysotile |
| **0810-0895** 1153081p | Mastic on wood | 0.07% | 28% organic<br>3% acid soluble | <0.1% chrysotile |
| **0810-0896** 1153082p | Mastic on wood<br>*Insufficient material* | 0.002% | | Not Analyzed |
| **0810-0897** 1153083p | Mastic on wood | 0.02% | 63% organic<br>12% acid soluble | <0.1% chrysotile |

Microscopist - Guillermo Hernandez

The analyses of the samples in this report were performed using gravimetric matrix reduction and polarized light microscopy (PLM) in accordance with the EPA method 600/R-93/116 July 1993. The asbestos concentration was determined using the semi-quantitative point count method. On a per sample basis, the accuracy and precision of point count results are not known. The result should lie within the statistical limits of variability calculated for standard reference samples routinely analyzed in the laboratory the point count method. The limit of detection for this analytical method is 0.25 percent using 400 points and 0.10 percent using 1000 points (visual area estimates).

Hygeia recommends trasmission electron microscopy (TEM) analysis on organically bound bulk materials (eg., vinyl floor tile, mastics, roofing materials, joint compounds) when PLM analysis shows undetectable quantities of asbestos. These materials often contain milled asbestos with fiber diameters and lengths too small to be resolved by the PLM and the analysis may yield a false negative result.

Hygeia Laboratories Inc. is accredited under the NIST/NVLAP program for asbestos in bulk material by polarized light microscopy and the State of California for asbestos analysis.

Hygeia Laboratories Inc. and its personnel shall not be liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretation of information supplied by us. Liability shall extend to providing replicate analyses only. This report must not be used to claim product endorsement by NVLAP or any agency of the US Government. Hygeia will retain samples for a period of three months unless otherwise specified. This report relates only to samples submitted and analyzed. This report may not be reproduced except for in full, without the written approval of this laboratory.

Please feel free to contact Hygiea regarding any questions about these results, this report, or the analytical methods employed.

Arturo Casas - Supervisor of Optical Microscopy

Hygeia Laboratories Inc.
82 W. Sierra Madre Blvd
ra Madre, CA 91024-2434
26) 355-4711 (626) 355-4497 Fax

NIST/NVLAP Lab Code 102116-0
California ELAP Certificate No. 1269

# Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

November 18, 2008

Mr. Jairo Lopez
LA Unified School District
1449 S. San Pedro
Los Angeles, CA 90015

Samples Analyzed: 5
Sampler: W. Shelby
Sample Condition: Acceptable

Hygeia Reference No.: **16238 08 0201**
Date Collected: October 28, 2008
Date Received: November 12, 2008
Date Analyzed: November 14, 2008

**Client Reference: 0810/0893-0897 San Pedro SH - Sample Mastic Under Wood Floor**

| Client Sample ID / Hygeia Sample ID | Sample Description - color / *Comments* | Asbestos Type, % | | | | | | | Non-Asbestos Constituents, % | | | | | | | | | QC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Asbestos Detected | Chrysotile | Amosite | Crocidolite | Tremolite / Actinolite | Anthophyllite | Other | Cellulose | Fiberglass | Synthetic | Mineral Fillers | Vermiculite | Organic Binders | | | | |
| **0810-0893** 1153079 | Mastic on wood - black | Yes | < 1 | | | | | | 5 | | | 30 | | 65 | | | | |
| **0810-0894** 1153080 | Mastic on wood - black | Yes | < 1 | | | | | | 5 | | | 30 | | 65 | | | | |
| **0810-0895** 1153081 | Mastic on wood - black | Yes | < 1 | | | | | | 5 | | | 30 | | 65 | | | | |
| **0810-0896** 1153082 | Mastic on wood - black | Yes | < 1 | | | | | | 5 | | | 30 | | 65 | | | | |
| **0810-0897** 1153083 | Mastic on wood - black | Yes | < 1 | | | | | | 5 | | | 30 | | 65 | | | | |

Microscopist - Fidel Gutierrez

The analyses of the samples in this report were performed using polarized light microscopy using the EPA method 600/R-93/116. The phase abundances provided are visually estimated and expressed as percent area. Total percentage of sample constituents may total greater than 100 due to trace amounts. The limit of detection for this analytical method is less than one percent. In multilayer samples, unless otherwise specified, the asbestos concentration is reported for the layer where asbestos is found. These results lie within the statistical limits of variability calculated for standard reference samples routinely analyzed in the laboratory. On a per sample basis, the accuracy and precision of the results depend on the type of sample and its asbestos content.

Hygeia recommends transmission electron microscopy (TEM) analysis on organically bound bulk materials (eg., vinyl floor tile, mastics, roofing materials, joint compounds) when PLM analysis shows undetectable quantities of asbestos. These materials often contain milled asbestos with fiber diameters and lengths too small to be resolved by the PLM and the analysis may yield a false negative result.

Hygeia Laboratories Inc. is accredited under the NIST/NVLAP program for asbestos in bulk material by polarized light microscopy and the State of California for asbestos analysis.

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Arturo Casas - Supervisor of Optical Microscopy

Hygeia Laboratories Inc.
82 W. Sierra Madre Blvd
Sierra Madre, CA 91024-2434
(626) 355-4711 (626) 355-4497 Fax

NIST / NVLAP Lab Code No. 102116-0
California ELAP Certificate No. 1269
New York ELAP Certificate No. 11017

# Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116 Point Count - 1000 Points

November 18, 2008

Mr. Jairo Lopez
LA Unified School District
1449 S. San Pedro
Los Angeles, CA 90015

Hygeia Reference No.: **16238 08 0201**
Samples Analyzed: 4
Sampler: W. Shelby
Sample Condition: Acceptable
Date Collected: October 28, 2008
Date Received: November 12, 2008
Date Analyzed: November 17, 2008

**Client Reference: 0810/0893-0897 San Pedro SH - Sample Mastic Under Wood Floor**

| Client Sample ID / Hygeia Sample ID | Sample Description / *Comments* | Detection Limit | Gravimetric Reduction | Analytical Results |
|---|---|---|---|---|
| **0810-0893** 1153079p | Mastic on wood | 0.04% | 45% organic<br>17% acid soluble | <0.1% chrysotile |
| **0810-0894** 1153080p | Mastic on wood | 0.05% | 43% organic<br>4% acid soluble | <0.1% chrysotile |
| **0810-0895** 1153081p | Mastic on wood | 0.07% | 28% organic<br>3% acid soluble | <0.1% chrysotile |
| **0810-0896** 1153082p | Mastic on wood<br>*Insufficient material* | 0.002% | | Not Analyzed |
| **0810-0897** 1153083p | Mastic on wood | 0.02% | 63% organic<br>12% acid soluble | <0.1% chrysotile |

Microscopist - Guillermo Hernandez

The analyses of the samples in this report were performed using gravimetric matrix reduction and polarized light microscopy (PLM) in accordance with the EPA method 600/R-93/116 July 1993. The asbestos concentration was determined using the semi-quantitative point count method. On a per sample basis, the accuracy and precision c point count results are not known. The result should lie within the statistical limits of variability calculated for standard reference samples routinely analyzed in the laboratory using the point count method. The limit of detection for this analytical method is 0.25 percent using 400 points and 0.10 percent using 1000 points (visual area estimates).

Hygeia recommends trasmission electron microscopy (TEM) analysis on organically bound bulk materials (eg., vinyl floor tile, mastics, roofing materials, joint compounds) when PLM analysis shows undetectable quantities of asbestos. These materials often contain milled asbestos with fiber diameters and lengths too small to be resolved by the PLM and the analysis may yield a false negative result.

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Arturo Casas - Supervisor of Optical Microscopy

# LOS ANGELES UNIFIED SCHOOL DISTRICT
# OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY
# CHAIN-OF-CUSTODY FOR BULK ANALYSIS

M.R.P. 3-19-09

29962

SITE NAME: San Pedro S.H. CODE: 8850 PROJECT: Sample mastic under wood floor

SAMPLED BY: William Shelby DATE SAMPLED: 12/4/2008 DEPT. / CONSULTANT: Paint Dept. TEL. NO: 310- 808-1537

Fill in all information legibly and precisely. Sampler should make a copy before submitting samples to the lab. **USE BLACK/BLUE INK ONLY**
Original to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 0812-0192 | Mastic -4 | 001CBJ | Indusrrial Arts | Room 163 | Northwest corner | Mastic on wood | YES / (NO) |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |

| DATE: | Time: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | NO. OF SAMPLES |
|---|---|---|---|---|
| 12/4/2008 | 10:00 AM | William Shelby Asb.Bldg.Insp. William Shelby | Paint Dept. M&O 8 Paint Dept. | 1 |
| 12-5-08 | 12p | M-Martinez / DK | OE 18 | 1 |
| | | | | |
| | | | | |

Bond Funded: Yes / (No)
Type of Bond:
Job Cost #:

Other Than Bond Describe
Maintenance & Operations:
Deferred Maintenance:
Other:

Los Angeles U School District
Office of Envi ntal Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk ple Analysis**
**Laborat Report**

SAN PEDRO HS
8850

NV LAB# 101505-0
Method EPA/600/R-93 /10D) July 1993
Date Received: 12/04/2008



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008120192 | NLI | 12/04/2008 | 001CBJ : INDUST. ARTS RM. 163 NW CORNER | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; TARLIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80% CELLULOSE SAND, TAR |

Lab Supervisor Signature and Date: [signature] 12/5/08

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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STEFAN K.

# OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

MR. P. 7-29-09

307 T

TE NAME: SAN Pedro Sr. CODE: 8850 PROJECT: CASE L.A.

PLED BY: STEFAN RAKOVICH DATE SAMPLED: 06-10-09 DEPT. / CONSULTANT: PUS (213) 215-4864 TEL. NO:

all information legibly and precisely. Sampler should make a copy before submitting samples to the lab. USE BLACK/BLUE INK ONLY
al to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 906-0413 | 1 | 014-DAP | Food Service | Exterior | SW WALL | Exterior Sand Stucco | YES / (NO) |
| 906-0414 | 2 | ↓ | ↓ | ↓ | SC ↓ | ↓ | YES / (NO) |
| 906-0415 | 3 | ↓ | ↓ | ↓ | SE ↓ | ↓ | YES / (NO) |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |

| : | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | NO. OF SAMPLES |
|---|---|---|---|---|
| 10-09 | 12:44 PM | STEFAN RAKOVICH | PUS, Plumb. DEPT | 3 |
| 10-09 | 12:49 P | SEYLA TE | DEPT | 3 |

Funded: Yes / (No)
of Bond:
ost #:

Other Than Bond Describe
Maintenance & Operations: MAINTENANCE
Deferred Maintenance:
Other:

MJO
MG
6/11/09

Los Angeles Unified School District
Office of Environmental Health and Safety
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116 (MOD) July 1993
Date Received: 06/10/2009



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2009060413-A | ST | 06/10/2009 | 014 DAP : FOOD SERVICE EXTERIOR SW WALL | HOMOGENEOUS; NON-FRIABLE; GRAY; EXTERIOR STUCCO; CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ORG.MATERIAL, ROCK, SAND |
| 2009060413-B | ST | 06/10/2009 | 014 DAP : FOOD SERVICE EXTERIOR SW WALL | HOMOGENEOUS; NON-FRIABLE; BEIGE; COATING; COATED MATERIAL | 2 | 0 | 0 | 0 | 0 | 0 | 2 | BINDER, CARBONATES, ORG.MATERIAL, PAINT |
| | | | | COMMENT(S): CONFIRMED BY MS. | | | | | | | | |
| 2009060414-A | ST | 06/10/2009 | 014 DAP : FOOD SERVICE EXTERIOR SC WALL | HOMOGENEOUS; NON-FRIABLE; GRAY; EXTERIOR STUCCO; CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ORG.MATERIAL, ROCK, SAND |
| 2009060414-B | ST | 06/10/2009 | 014 DAP : FOOD SERVICE EXTERIOR SC WALL | HOMOGENEOUS; NON-FRIABLE; BEIGE; COATING; COATED MATERIAL | 2 | 0 | 0 | 0 | 0 | 0 | 2 | BINDER, CARBONATES, ORG.MATERIAL, PAINT |
| | | | | COMMENT(S): CONFIRMED BY MS. | | | | | | | | |
| 2009060415-A | ST | 06/10/2009 | 014 DAP : FOOD SERVICE EXTERIOR SE WALL | HOMOGENEOUS; NON-FRIABLE; GRAY; EXTERIOR STUCCO; CEMENTITIOUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ORG.MATERIAL, ROCK, SAND |
| 2009060415-B | ST | 06/10/2009 | 014 DAP : FOOD SERVICE EXTERIOR SE WALL | HOMOGENEOUS; NON-FRIABLE; BEIGE; COATING; COATED MATERIAL | 2 | 0 | 0 | 0 | 0 | 0 | 2 | BINDER, CARBONATES, ORG.MATERIAL, PAINT |
| | | | | COMMENT(S): CONFIRMED BY MS. | | | | | | | | |

Lab Supervisor Signature and Date: 6/11/09

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government.
This report may not be reproduced except in its entirety.

Hygeia Laboratories Inc.

82 W. Sierra Madre Blvd
Sierra Madre, CA 91024-2434
(626) 355-4711 (626) 355-4497 Fax

A.T.L JUL02'09 10:12:28

NIST / NVLAP Lab Code No. 102116-0
California ELAP Certificate No. 1269
New York ELAP Certificate No. 11017

# Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116 Point Count - 1000 Points

June 16, 2009

Mr. Jairo Lopez
LA Unified School District
1449 S. San Pedro
Los Angeles, CA 90015

Samples Analyzed: 1
Sampler: S. Radovcich
Sample Condition: Acceptable

Hygeia Reference No.: **16238 09 0161**
Date Collected: June 10, 2009
Date Received: June 12, 2009
Date Analyzed: June 16, 2009

**Client Reference: 0906/0413-0415 San Pedro HS - Ease LA**

| Client Sample ID / Hygeia Sample I | Sample Description / *Comments* | Detection Limit | Gravimetric Reduction | Analytical Results |
|---|---|---|---|---|
| **0906-0413** 1175071p | Exterior stucco | 0.07% | 29% organic<br>6% acid soluble | 0.98% chrysotile |
| **0906-0414** 1175072p | Exterior stucco | 0.05% | | Not Analyzed |
| **0906-0415** 1175073p | Exterior stucco | 0.05% | | Not Analyzed |

Guillermo Hernandez

Microscopist - Guillermo Hernandez

The analyses of the samples in this report were performed using gravimetric matrix reduction and polarized light microscopy (PLM) in accordance with the EPA method 600/R-93/116 July 1993. The asbestos concentration was determined using the semi-quantitative point count method. On a per sample basis, the accuracy and precision of point count results are not known. The result should lie within the statistical limits of variability calculated for standard reference samples routinely analyzed in the laboratory using the point count method. The limit of detection for this analytical method is 0.25 percent using 400 points and 0.10 percent using 1000 points (visual area estimates).

Hygeia recommends trasmission electron microscopy (TEM) analysis on organically bound bulk materials (eg., vinyl floor tile, mastics, roofing materials, joint compounds) when PLM analysis shows undetectable quantities of asbestos. These materials often contain milled asbestos with fiber diameters and lengths too small to be resolved by PLM and the analysis may yield a false negative result.

Hygeia Laboratories Inc. is accredited under the NIST/NVLAP program for asbestos in bulk material by polarized light microscopy and the State of California for asbestos analysis.

Hygeia Laboratories Inc. and its personnel shall not be liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretation of information supplied by us. Liability shall extend to providing replicate analyses only. This report must not be used to claim product endorsement by NVLAP or any agency of the US Government. Hygeia will retain samples for a period of three months unless otherwise specified. This report relates only to samples submitted and analyzed. This report may not be reproduced except for in full, without the written approval of this laboratory.

Please feel free to contact Hygiea regarding any questions about these results, this report, or the analytical methods employed.

Arturo Casas - Supervisor of Optical Microscopy

Hygeia Laboratories Inc.
W. Sierra Madre Blvd
Sierra Madre, CA 91024-2434
(626) 355-4711 (626) 355-4497 Fax

NIST/NVLAP Lab Code 102116-0
California ELAP Certificate No. 1269

# Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

June 16, 2009

Mr. Jairo Lopez
LA Unified School District
1449 S. San Pedro
Los Angeles, CA 90015

Samples Analyzed: 3
Sampler: S. Radovcich
Sample Condition: Acceptable

Hygeia Reference No.: **16238 09 0161**
Date Collected: June 10, 2009
Date Received: June 12, 2009
Date Analyzed: June 12, 2009

**Client Reference: 0906/0413-0415 San Pedro HS - Ease LA**

| Client Sample ID / Hygeia Sample ID | Sample Description - color / *Comments* | Asbestos Type, % | | | | | | | Non-Asbestos Constituents, % | | | | | | | | | QC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Asbestos Detected | Chrysotile | Amosite | Crocidolite | Tremolite / Actinolite | Anthophyllite | Other | Cellulose | Fiberglass | Synthetic | Mineral Fillers | Vermiculite | Organic Binders | Paint | | | |
| **0906-0413** 1175071 | Exterior stucco - white/tan | Yes | < 1 | | | | | | | | | 90 | | | 10 | | | |
| **0906-0414** 1175072 | Exterior stucco - white/tan | Yes | < 1 | | | | | | | | | 90 | | | 10 | | | |
| **0906-0415** 1175073 | Exterior stucco - white/tan | Yes | < 1 | | | | | | | | | 90 | | | 10 | | | |

Microscopist - Fidel Gutierrez

The analyses of the samples in this report were performed using polarized light microscopy using the EPA method 600/R-93/116. The phase abundances provided are visually estimated and expressed as percent area. Total percentage of sample constituents may total greater than 100 due to trace amounts. The limit of detection for this analytical method is less than one percent. In multilayer samples, unless otherwise specified, the asbestos concentration is reported for the layer where asbestos is found. These results lie within the statistical limits of variability calculated for standard reference samples routinely analyzed in the laboratory. On a per sample basis, the accuracy and precision of the results depend on the type of sample and its asbestos content.

Hygeia recommends transmission electron microscopy (TEM) analysis on organically bound bulk materials (eg., vinyl floor tile, mastics, roofing materials, joint compounds) when PLM analysis shows undetectable quantities of asbestos. These materials often contain milled asbestos with fiber diameters and lengths too small to be resolved by the PLM and the analysis may yield a false negative result.

Hygeia Laboratories Inc. is accredited under the NIST/NVLAP program for asbestos in bulk material by polarized light microscopy and the State of California for asbestos analysis.

Hygeia Laboratories Inc. and its personnel shall not be liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretation of information supplied by us. Liability shall extend to providing replicate analyses only. This report must not be used to claim product endorsement by NVLAP or any agency of the US Government. Hygeia will retain samples for a period of three months unless otherwise specified. This report relates only to samples submitted and analyzed. This report may not be reproduced except for in full, without the written approval of this laboratory. Please feel free to contact Hygeia regarding any questions about these results, this report, or the analytical methods employed.

Arturo Casas - Supervisor of Optical Microscopy

STONE MOUNTAIN

132626

LOS ANGELES UNIFIED SCHOOL DISTRICT
OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY
CHAIN-OF-CUSTODY FOR BULK ANALYSIS

SITE NAME: San Pedro HS CODE: 8850 PROJECT: 23.05208

SAMPLED BY: Rigo Rodriguez DEPT / CONSULTANT: Panacea, Inc. TEL NO.: 562-860-2869 DATE SAMPLED: 9/23/09

Fill in all information legibly and precisely. Sampler should make a copy before submitting samples to the lab. USE BLACK/BLUE INK ONLY.
Original to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 0909-0152 | B-1 | 013BCP | Classroom Bldg. #2 | Ceiling Space | Northeast | Roofing Debris | YES NO |
| 0909-0153 | B-2 | ↓ | ↓ | ↓ | West | ↓ | YES NO |
| 0909-0154 | B-3 | ↓ | ↓ | ↓ | West | ↓ | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

FLI

| DATE | TIME | NAME (PRINT & SIGN) | DEPT/AREA/CONSULTANT | NO. OF SAMPLES |
|---|---|---|---|---|
| 9/24/09 | 2:37PM | Rigo Rodriguez - RR | Panacea, Inc. | 3 |
| 9-24-09 | 2:40 | R. Martinez /RM | PSD | 3 |
| 9-29-09 | 1:51 | JAIRO LOPEZ /JL | ATU 79 | 3 |
| 9-29-09 | 1:55 | Alexander Pakkay /AP | CONSULTANTS | 3 |

Bond Funded: Yes / No
Type of Bond:
Job Cost #: 23.0520B

Other Than Bond Describe
Maintenance & Operations: Yes
Deferred Maintenance:
Other:

N/A

MC 9/29/09

bulk sample submittal 4.08.09.xls

FROM 15628606297 TO 15:48 SEP-25-2009 P.03 TOTAL P.03

LOS ANGELES UNIFIED SCHOOL DISTRICT
OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY
CHAIN-OF-CUSTODY FOR BULK ANALYSIS

J.L. 10-27-09

ATU SEP29'2009 AM11:08

SITE NAME: San Pedro HS CODE: 8850 PROJECT: 23.05208 31199

SAMPLED BY: Rigo Rodriguez DEPT / CONSULTANT: Panacea, Inc. TEL. NO.: 562-860-2869 DATE SAMPLED: 9/23/09

Fill in all information legibly and precisely. Sampler should make a copy before submitting samples to the lab. USE BLACK/BLUE INK ONLY.
Original to OEHS lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 0909-0152 | B-1 | 013BCP | Classroom Bldg. #2 | Ceiling Space | Northeast | Roofing Debris | YES NO |
| 0909-0153 | B-2 | ↓ | ↓ | ↓ | West | ↓ | YES NO |
| 0909-0154 | B-3 | ↓ | ↓ | ↓ | West | ↓ | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |
| | | | | | | | YES NO |

| DATE: | TIME: | NAME (PRINT & SIGN): | DEPT/AREA/CONSULTANT: | NO. OF SAMPLES: |
|---|---|---|---|---|
| 9/24/09 | 2:37PM | Rigo Rodriguez - R. Rs | Panacea, Inc. | 3 |
| 9-24-09 | 2:40 | R. Martinez/FSD | FSD | 3 |

Bond Funded: Yes / No
Type of Bond:
Job Cost #: 23.05208

Other Than Bond Describe
Maintenance & Operations: Yes
Deferred Maintenance:
Other:

Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 09/24/2009



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2009090152 | ST | 09/24/2009 | 013BCP : CLSRM/BLD. 2 CEILING SPACE NE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; ROOFING; TARLIKE | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 25% CELLULOSE TAR |
| 2009090153 | ST | 09/24/2009 | 013BCP : CLSRM/BLD. 2 CEILING SPACE WEST | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; ROOFING; TARLIKE | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 25% CELLULOSE TAR |
| 2009090154 | ST | 09/24/2009 | 013BCP : CLSRM/BLD. 2 CEILING SPACE WEST | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; ROOFING; TARLIKE | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 25% CELLULOSE TAR |

Lab Supervisor Signature and Date: 9/25/09

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government.

# Point Count Report



**Report No:** 132626

**Date:** October 2, 2009

**Date Analyzed:** October 2, 2009

**Date Sampled:** 9/23/09 by Rigo Rodriguez

**Customer:** LAUSD
1240 S. Naomi Ave
Los Angeles, CA 90021

**Attention:** Jairo Lopez

**Reference:** San Pedro H.S.; Code: 8850 23.05208, 31199

**Subject:** Polarized Light Microscopy Analysis for Asbestos 3 Samples (1000 Point Count)

**Methodology:** "Method for Determination of Asbestos in Bulk Building Materials." EPA 600/R-93/116 M

**Accredited:** NVLAP Lab Code 101218-0

**Certified:** California Department of Health Services Environmental Testing Laboratory ELAP 1119
County Sanitation Districts of Los Angeles County, Lab ID No. 10120

Quality Control Sample (SRM 1866 Glass Fibers as the blank): None Detected

| LAUSD ID NUMBER | SAMPLE ID NUMBER | % REDUCTION | TOTAL ASBESTOS |
|---|---|---|---|
| 0909-0152 | B-1 | 96% | LESS THAN 0.1% |
| 0909-0153 | B-2 | 98% | LESS THAN 0.1% |
| 0909-0154 | B-3 | 99% | LESS THAN 0.1% |

Samples ashed and acid treated
Analytical Sensitivity: 0.1%

Optical Microscopist
BMK/mt

B.M. Kolk, Laboratory Director

The EPA method is a semi-quantitative procedure. The detection limit is between 0.1 - 1% by area and is dependent upon the size of the asbestos fibers, the means of sampling and the matrix of the sampled material.

The test results reported are for the sample(s) delivered to us and may not represent the entire material from which the samples was taken. The EPA recommends three samples or more be taken from a "homogenous sampling area" before friable material is considered non-asbestos-containing.

** Negative floor tile samples may contain significant amounts (>1%) of very thin asbestos fibers which cannot be detected by PLM. Confirmation by XRD or TEM is recommended by the EPA (Federal Register Vol. 59, No. 146).

This report, from a NIST-accredited laboratory through NVLAP, must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. government. This report shall not be reproduced, except in full, without the written approval of EMS Laboratories.

# LOS ANGELES UNIFIED SCHOOL DISTRICT
## FACILITIES SERVICES DIVISION
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

mail 3-23-11

140533

SITE NAME: San Pedro HS CODE: 88850 PROJECT DESC: Photovoltaic System Installation PIC PROJ.#:

SAMPLED BY: Gus Nepi DATE SAMPLED: 9/24/10 DEPT. / CONSULTANT: ATU TEL. NO: 213-745-1450

Fill in all information legibly and precisely. Sampler should make a copy before submitting samples to the lab. **USE BLACK/BLUE INK ONLY**
Original to FSD lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 1009-0232 | 01 | 010 DAP | Girls Gym | Roof | Northwest | Rolled Roofing | YES / (NO) |
| 1009-0233 | 02 | 〃 | 〃 | 〃 | North Central | 〃 | YES / (NO) |
| 1009-0234 | 03 | 〃 | 〃 | 〃 | North East | 〃 | YES / (NO) |
| 1009-0235 | 04 | 〃 | 〃 | 〃 | North West | Penetration Mastic | YES / (NO) |
| 1009-0236 | 05 | 〃 | 〃 | 〃 | North Central | 〃 | YES / (NO) |
| 1009-0237 | 06 | 〃 | 〃 | 〃 | North East | 〃 | YES / (NO) |
| | | | | | Please Rush 24hr. 3pt 9/27/10 | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |

| DATE: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | NO. OF SAMPLES |
|---|---|---|---|---|
| 9/24/10 | 1430 | Gust-Nepi | ATU | 6 |
| 9.27.10 | 8:53am | Paul Flores | ATU | 6 |
| 9-27-10 | 12:15pm | G. Casillas | ATU | 6 |
| 9.27.10 | 1:00 | V. Molina | EMS | 6 |

**Work order number with valid job ticket number is required for sample analysis. Please complete before submitting.**

AWMS Work Order #: 8401811

Project Type (check one): ☐ Maintenance ☐ Deferred Maintenance ☐ Bond (specify BB,K,R,Y, or Q) ____ ☑ Other (Describe) A & I

Rev. 9/24/09

| | | | |
|---|---|---|---|
| **Report No:** | 140533 | **Customer:** | LAUSD |
| **Date:** | September 28, 2010 | | 1240 S. Naomi Ave. |
| **Date Received:** | September 27, 2010 | | Los Angeles, CA 90021 |
| **Date Analyzed:** | September 28, 2010 | **Attention:** | Jairo Lopez |
| **Date/Time Collected:** | September 24, 2010 by Gus Nori | **Reference:** | Site Name: San Pedro H.S.; Code: 8850; Project Desc.: Photovoltaic System Installation |
| **Subject:** | Polarized Light Microscopy Analysis for Asbestos | 10 | Samples |
| **Methodology:** | "Method for Determination of Asbestos in Bulk Building Materials." EPA 600/R-93/116 | | |
| | "Interim Method for the Determination of Asbestos in Bulk Insulation Samples." EPA-600/M4-82-020 | | |
| **Accredited:** | NVLAP Lab Code 101218-0 | | |
| **Certified:** | California Department of Health Services Environmental Testing Laboratory ELAP 1119<br>County Sanitation Districts of Los Angeles County, Lab ID No. 10120 | | |

Quality Control Sample (SRM 1866 Glass Fibers as the blank): None Detected

| Sample ID | Asbestos Percent |
|---|---|
| **1009-0232(A)**<br>Layer: Black Fibrous<br>Sample Type: Homogeneous<br>Friability: Non-Friable<br>Other Fibrous Material: Fiberglass (5%) | Asbestos (ND) |
| **1009-0232(B)**<br>Layer: Black Fibrous<br>Sample Type: Homogeneous<br>Friability: Non-Friable<br>Other Fibrous Material: Fiberglass (10%) | Asbestos (ND) |
| **1009-0232(C)**<br>Layer: Black Tar Like, Black Fibrous<br>Sample Type: Non-Homogeneous<br>Friability: Non-Friable<br>Other Fibrous Material: Fiberglass (10%) | Asbestos (ND) |
| **1009-0233(A)**<br>Layer: Black Fibrous<br>Sample Type: Homogeneous<br>Friability: Non-Friable<br>Other Fibrous Material: Cellulose (<1%) Fiberglass (5%) | Asbestos (ND) |
| **1009-0233(B)**<br>Layer: Black Fibrous<br>Sample Type: Homogeneous<br>Friability: Non-Friable<br>Other Fibrous Material: Cellulose (<1%) Fiberglass (5%) | Asbestos (ND) |
| **1009-0234(A)**<br>Layer: Black Fibrous<br>Sample Type: Homogeneous<br>Friability: Non-Friable<br>Other Fibrous Material: Fiberglass (10%) | Asbestos (ND) |

Report No: 140533

| Sample ID | Asbestos Percent |
|---|---|
| **1009-0234(B)** | |
| Layer: Black Fibrous<br>Sample Type: Homogeneous<br>Friability: Non-Friable<br>Other Fibrous Material: Fiberglass (5%) | Asbestos (ND) |
| **1009-0235** | |
| Layer: Black Fibrous<br>Sample Type: Homogeneous<br>Friability: Non-Friable<br>Other Fibrous Material: Cellulose (10%) | Asbestos (ND) |
| **1009-0236** | |
| Layer: Black Fibrous<br>Sample Type: Homogeneous<br>Friability: Non-Friable<br>Other Fibrous Material: Cellulose (10%) | Asbestos (ND) |
| **1009-0237** | |
| Layer: Black Fibrous<br>Sample Type: Homogeneous<br>Friability: Non-Friable<br>Other Fibrous Material: Cellulose (10%) Fiberglass (5%) Synthetics (<1%) | Asbestos (ND) |

Jeff Wan, Optical Microscopist

BMK/mt

B.M. Kolk, Laboratory Director

ND' = 'NONE DETECTED'.

The EPA method is a semi-quantitative procedure. The detection limit is between 0.1 - 1% by area and is dependent upon the size of the asbestos fibers, the means of sampling and the matrix of the sampled material.

The test results reported are for the sample(s) delivered to us and may not represent the entire material from which the samples was taken. The EPA recommends three samples or more be taken from a "homogenous sampling area" before friable material is considered non-asbestos-containing.

** Negative floor tile samples may contain significant amounts (>1%) of very thin asbestos fibers which cannot be detected by PLM. Confirmation by XRD or TEM is recommended by the EPA (Federal Register Vol. 59, No. 146).

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Samples were received in good condition unless otherwise noted.

MRP
2-27-13

# LOS ANGELES UNIFIED SCHOOL DISTRICT
# FACILITIES SERVICES DIVISION
# CHAIN-OF-CUSTODY FOR BULK ANALYSIS

SITE NAME: SAN PEDRO HIGH CODE: 8850 PROJECT DESC: REPL DETERIORATED DECK 33033 PIC PROJ.#: N/A

SAMPLED BY: VINCE BROWN DATE SAMPLED: 1/22/2013 DEPT. / CONSULTANT: CR AREA 3 TEL. NO: 213 745-1497

Fill in all information legibly and precisely. Sampler should make a copy before submitting samples to the lab. **USE BLACK/BLUE INK ONLY**
Original to FSD lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 1301-0060 | VBB-1 | 003BCJ | HM ECONMICS | LOWER DECK | EASTSIDE | DEX-O-TEX | YES / NO |
| 1301-0061 | VBB-2 | 003BCJ | HM ECONMICS | LOWER DECK | WESTSIDE | DEX-O-TEX | YES / NO |
| 1301-0062 | VBB-3 | 003BCJ | HM ECONMICS | LOWER DECK | WESTSIDE | DEX-O-TEX | YES / NO |
| 1301-0063 | VBB-4 | 003BCJ | HM ECONMICS | LOWER DECK | EASTSIDE | DEX-O-TEX | YES / NO |
| 1301-0064 | VBB-5 | 003BCJ | HM ECONMICS | UPPER DECK | CENTER | DEX-O-TEX | YES / NO |
| 1301-0065 | VBB-6 | 003BCJ | HM ECONMICS | UPPER DECK | WESTSIDE | DEX-O-TEX | YES / NO |
| 1301-0066 | VBB-7 | 003BCJ | HM ECONMICS | UPPER DECK | EASTSIDE | DEX-O-TEX | YES / NO |
| 1301-0067 | VBB-8 | 003BCJ | HM ECONMICS | UPPER DECK | EASTSIDE | DEX-O-TEX | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |

| DATE: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | NO. OF SAMPLES |
|---|---|---|---|---|
| 01/25/2013 | 1:25pm | VINCE BROWN | CENTRAL REGION M&O 03 | 8 |
| 1/25/2012 | 1:30 PM | L Noble | FSD LAB | 8 |
| | | | Parrot Courier J. Jaquez 1/31/2013 | |
| | | | | |
| | | | | |

**Work order number with valid job ticket number is required for sample analysis. Please complete before submitting.**

AWMS Work Order #: 14445055

Project Type (check one): ☒ Maintenance ☐ Deferred Maintenance ☐ Bond (specify BB,K,R,Y, or Q) ____ ☐ Other (Describe) ____

Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 01/25/2013



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2013010063-A | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK EAST SIDE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ WHITE; DEXOTEX; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE MINERAL FILLER, TAR |
| 2013010063-B | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK EAST SIDE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE TAR |
| 2013010063-C | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK EAST SIDE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE TAR |
| 2013010063-D | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK EAST SIDE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE TAR |
| 2013010064-A | LN | 01/28/2013 | 003BCJ : HM. ECON. UPPPER DECK CENTER | HOMOGENEOUS; NON-FRIABLE; GRAY; DEXOTEX; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | MINERAL FILLER, ORG.MATERIAL |
| 2013010064-B | LN | 01/28/2013 | 003BCJ : HM. ECON. UPPPER DECK CENTER | HOMOGENEOUS; NON-FRIABLE; GRAY/ OFF WHITE; DEXOTEX; RUBBER W/ ADHESIVE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | MINERAL FILLER, ORG.MATERIAL, ROCK |
| 2013010065 | LN | 01/28/2013 | 003BCJ : HM. ECON. UPPPER DECK WEST SIDE | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; DEXOTEX; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | MINERAL FILLER, ORG.MATERIAL, ROCK |
| 2013010066-A | LN | 01/28/2013 | 003BCJ : HM. ECON. UPPPER DECK EAST SIDE | HOMOGENEOUS; NON-FRIABLE; GRAY; DEXOTEX; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | MINERAL FILLER, ORG.MATERIAL |
| 2013010066-B | LN | 01/28/2013 | 003BCJ : HM. ECON. UPPPER DECK EAST SIDE | HOMOGENEOUS; NON-FRIABLE; GRAY/ OFF WHITE; DEXOTEX; RUBBER W/ ADHESIVE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | MINERAL FILLER, ORG.MATERIAL, ROCK |

Lab Supervisor Signature and Date: 1/28/13

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable "Quantification done by optical estimate" I...5 % considered non-quantifiable

This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government

Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 01/25/2013



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2013010067-A | LN | 01/28/2013 | 003BCJ : HM. ECON. UPPPER DECK EAST SIDE | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; DEXOTEX; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | MINERAL FILLER, ORG.MATERIAL, ROCK |
| 2013010067-B | LN | 01/28/2013 | 003BCJ : HM. ECON. UPPPER DECK EAST SIDE | HOMOGENEOUS; NON-FRIABLE; BLACK; COATING; TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | TAR |

Lab Supervisor Signature and Date: 1/29/13

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.

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Los Angeles Unified School District
Facilities Services Division
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 745-1138

# Asbestos Point Count Analysis
## Laboratory Report

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116 (1000 Point Count)
Date Sampled: 1/22/2013
Date Received: 1/25/2013
Date Requested: 1/31/2013



| LAUSD Lab# | MIC | Date Analyzed | Material Description | Percentage Reduction | | | Detection Limit | Counts | | Analytical Results |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ashed | Acidification | Total | | Asbestos | Total | |
| 2013010061A | MS | 2/1/2013 | Light Gray Coating | 19.7598 | 70.0058 | 89.7656 | 0.010 | 103 | 1000 | 1.05% Chrysotile |

Lab Supervisor Signature and Date: 2/1/2013

Signature of Analyst:

This report relates to only the material tested. This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government.
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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## FACILITIES SERVICES DIVISION
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

M.R.P. 2-1-13

SITE NAME: SAN PEDRO HIGH CODE: 8850 PROJECT DESC: REPL DETERIORATED DECK 33033 PIC PROJ.#: N/A

SAMPLED BY: VINCE BROWN DATE SAMPLED: 1/22/2013 DEPT. / CONSULTANT: CR AREA 3 TEL. NO: 213 745-1497

Fill in all information legibly and precisely. Sampler should make a copy before submitting samples to the lab. **USE BLACK/BLUE INK ONLY**
Original to FSD lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 1301-0060 | VBB-1 | 003BCJ | HM ECONMICS | LOWER DECK | EASTSIDE | DEX-O-TEX | YES / NO |
| 1301-0061 | VBB-2 | 003BCJ | HM ECONMICS | LOWER DECK | WESTSIDE | DEX-O-TEX | YES / NO |
| 1301-0062 | VBB-3 | 003BCJ | HM ECONMICS | LOWER DECK | WESTSIDE | DEX-O-TEX | YES / NO |
| 1301-0063 | VBB-4 | 003BCJ | HM ECONMICS | LOWER DECK | EASTSIDE | DEX-O-TEX | YES / NO |
| 1301-0064 | VBB-5 | 003BCJ | HM ECONMICS | UPPER DECK | CENTER | DEX-O-TEX | YES / NO |
| 1301-0065 | VBB-6 | 003BCJ | HM ECONMICS | UPPER DECK | WESTSIDE | DEX-O-TEX | YES / NO |
| 1301-0066 | VBB-7 | 003BCJ | HM ECONMICS | UPPER DECK | EASTSIDE | DEX-O-TEX | YES / NO |
| 1301-0067 | VBB-8 | 003BCJ | HM ECONMICS | UPPER DECK | EASTSIDE | DEX-O-TEX | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |

| DATE: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | NO. OF SAMPLES |
|---|---|---|---|---|
| 01/25/2013 | 1:25pm | VINCE BROWN | CENTRAL REGION M&O 03 | 8 |
| 1/25/2012 | 1:30 PM | L Noble | FSD LAB | 8 |
| | | | | |
| | | | | |
| | | | | |

**Work order number with valid job ticket number is required for sample analysis. Please complete before submitting.**

AWMS Work Order #: 14445055

Project Type (check one): ☒ Maintenance ☐ Deferred Maintenance ☐ Bond (specify BB,K,R,Y, or Q) ____ ☐ Other (Describe) ____

Rev. 9/24/09

Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 01/25/2013



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2013010060-A | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK EAST SIDE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ WHITE; DEXOTEX; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE MINERAL FILLER, TAR |
| 2013010060-B | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK EAST SIDE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE TAR |
| 2013010060-C | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK EAST SIDE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE TAR |
| 2013010060-D | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK EAST SIDE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE TAR |
| 2013010061-A | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK WEST SIDE | HOMOGENEOUS; NON-FRIABLE; LT.GRAY; COATING; MUD | 2 | 0 | 0 | 0 | 0 | 0 | 2 | CARBONATES, ORG.MATERIAL |
| | | | | | **COMMENT(S): DIFFERENT FROM 1301/0060, 0062 & 0063. SMALL AMOUNT OF SAMPLE.** | | | | | | | |
| 2013010061-B | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK WEST SIDE | HOMOGENEOUS; NON-FRIABLE; BLACK/ WHITE; DEXOTEX; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE MINERAL FILLER, TAR |
| | | | | | **COMMENT(S): COMPOSITE ANALYSIS OF 3 LAYERS** | | | | | | | |
| 2013010062-A | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK WEST SIDE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ WHITE; DEXOTEX; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE MINERAL FILLER, TAR |
| 2013010062-B | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK WEST SIDE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE TAR |
| 2013010062-C | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK WEST SIDE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE TAR |

Lab Supervisor Signature and Date: _____ 1/28/13

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 01/25/2013



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2013010063-A | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK EAST SIDE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ WHITE; DEXOTEX; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE MINERAL FILLER, TAR |
| 2013010063-B | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK EAST SIDE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE TAR |
| 2013010063-C | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK EAST SIDE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE TAR |
| 2013010063-D | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK EAST SIDE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE TAR |
| 2013010064-A | LN | 01/28/2013 | 003BCJ : HM. ECON. UPPPER DECK CENTER | HOMOGENEOUS; NON-FRIABLE; GRAY; DEXOTEX; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | MINERAL FILLER, ORG.MATERIAL |
| 2013010064-B | LN | 01/28/2013 | 003BCJ : HM. ECON. UPPPER DECK CENTER | HOMOGENEOUS; NON-FRIABLE; GRAY/ OFF WHITE; DEXOTEX; RUBBER W/ ADHESIVE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | MINERAL FILLER, ORG.MATERIAL, ROCK |
| 2013010065 | LN | 01/28/2013 | 003BCJ : HM. ECON. UPPPER DECK WEST SIDE | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; DEXOTEX; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | MINERAL FILLER, ORG.MATERIAL, ROCK |
| 2013010066-A | LN | 01/28/2013 | 003BCJ : HM. ECON. UPPPER DECK EAST SIDE | HOMOGENEOUS; NON-FRIABLE; GRAY; DEXOTEX; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | MINERAL FILLER, ORG.MATERIAL |
| 2013010066-B | LN | 01/28/2013 | 003BCJ : HM. ECON. UPPPER DECK EAST SIDE | HOMOGENEOUS; NON-FRIABLE; GRAY/ OFF WHITE; DEXOTEX; RUBBER W/ ADHESIVE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | MINERAL FILLER, ORG.MATERIAL, ROCK |

Lab Supervisor Signature and Date: 1/28/13

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 01/25/2013



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2013010067-A | LN | 01/28/2013 | 003BCJ : HM. ECON. UPPPER DECK EAST SIDE | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; DEXOTEX; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | MINERAL FILLER, ORG.MATERIAL, ROCK |
| 2013010067-B | LN | 01/28/2013 | 003BCJ : HM. ECON. UPPPER DECK EAST SIDE | HOMOGENEOUS; NON-FRIABLE; BLACK; COATING; TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | TAR |

Lab Supervisor Signature and Date: 1/29/13

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 01/25/2013



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2013010060-A | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK EAST SIDE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ WHITE; DEXOTEX; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE MINERAL FILLER, TAR |
| 2013010060-B | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK EAST SIDE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE TAR |
| 2013010060-C | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK EAST SIDE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE TAR |
| 2013010060-D | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK EAST SIDE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE TAR |
| 2013010061-A | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK WEST SIDE | HOMOGENEOUS; NON-FRIABLE; LT.GRAY; COATING; MUD | 2 | 0 | 0 | 0 | 0 | 0 | 2 | CARBONATES, ORG.MATERIAL |
| | | | | | COMMENT(S): DIFFERENT FROM 1301/0060, 0062 & 0063. SMALL AMOUNT OF SAMPLE. | | | | | | | |
| 2013010061-B | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK WEST SIDE | HOMOGENEOUS; NON-FRIABLE; BLACK/ WHITE; DEXOTEX; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE MINERAL FILLER, TAR |
| | | | | | COMMENT(S): COMPOSITE ANALYSIS OF 3 LAYERS | | | | | | | |
| 2013010062-A | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK WEST SIDE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ WHITE; DEXOTEX; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE MINERAL FILLER, TAR |
| 2013010062-B | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK WEST SIDE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE TAR |
| 2013010062-C | LN | 01/28/2013 | 003BCJ : HM. ECON. LOWER DECK WEST SIDE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE TAR |

Lab Supervisor Signature and Date: 1/28/13

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable "Quantification done by optical estimate" i.e. 5 % considered non-quantifiable

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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## FACILITIES SERVICES DIVISION
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS 2-1-14

SITE NAME: SAN PEDRO SH CODE: 8850 PROJECT DESC: Counseling Complex Remodel PIC PROJ.#:

SAMPLED BY: Jim McFarland DATE SAMPLED: 1/20/2014 DEPT. / CONSULTANT: LAUSD - ATU TEL. NO: 745-1450

Fill in all information legibly and precisely. Sampler should make a copy before submitting samples to the lab. **USE BLACK/BLUE INK ONLY**
Original to FSD lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 1401-0215 | SP-1 | 004BDJ | Administrative and Classroom Building | Counseling Complex | North Wall - West | Tack Board Adhesive | (YES) / NO |
| 1401-0216 | SP-2 | 004BDJ | Administrative and Classroom Building | Counseling Complex | North Wall - Center | Tack Board Adhesive | (YES) / NO |
| 1401-0217 | SP-3 | 004BDJ | Administrative and Classroom Building | Counseling Complex | North Wall - East | Tack Board Adhesive | (YES) / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |

| DATE: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | NO. OF SAMPLES |
|---|---|---|---|---|
| 1-20-14 | 10:00 AM | Jim McFarland Jim. Farland | LAUSD - ATU | 3 |
| 1-21-14 | 9:53 AM | L. Noble L Noble | FSD LAB | 3 |
| | | | | |
| | | | | |
| | | | | |

**Work order number with valid job ticket number is required for sample analysis. Please complete before submitting.**

AWMS Work Order #: 13238272

Jim.

Project Type (check one): ☐ Maintenance ☐ Deferred Maintenance Bond (specify BB,K,R,Y, or Q) ID ☐ Other (Describe)

Rev. 9/24/09

Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

N LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 01/21/2014



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2014010215-A | LN | 01/21/2014 | 004BDJ : ADMIN/CLSRM. BLD. COUNSELING COMPLEX NO. WALL/WEST | NON-HOMOGENEOUS; FRIABLE; BROWN; BOARD; CORK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20% CELLULOSE CORK |
| 2014010215-B | LN | 01/21/2014 | 004BDJ : ADMIN/CLSRM. BLD. COUNSELING COMPLEX NO. WALL/WEST | NON-HOMOGENEOUS; FRIABLE; BROWN; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2014010215-C | LN | 01/21/2014 | 004BDJ : ADMIN/CLSRM. BLD. COUNSELING COMPLEX NO. WALL/WEST | HOMOGENEOUS; FRIABLE; WHITE; PLASTER; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2014010216-A | LN | 01/21/2014 | 004BDJ : ADMIN/CLSRM. BLD. COUNSELING COMPLEX NO. WALL/CTR. | NON-HOMOGENEOUS; FRIABLE; BROWN; BOARD; CORK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20% CELLULOSE CORK |
| 2014010216-B | LN | 01/21/2014 | 004BDJ : ADMIN/CLSRM. BLD. COUNSELING COMPLEX NO. WALL/CTR. | NON-HOMOGENEOUS; FRIABLE; BLACK/ BROWN; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2014010217-A | LN | 01/21/2014 | 004BDJ : ADMIN/CLSRM. BLD. COUNSELING COMPLEX NO. WALL/EAST | NON-HOMOGENEOUS; FRIABLE; BROWN; BOARD; CORK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20% CELLULOSE CORK |
| 2014010217-B | LN | 01/21/2014 | 004BDJ : ADMIN/CLSRM. BLD. COUNSELING COMPLEX NO. WALL/EAST | NON-HOMOGENEOUS; FRIABLE; BLACK/ BROWN; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2014010217-C | LN | 01/21/2014 | 004BDJ : ADMIN/CLSRM. BLD. COUNSELING COMPLEX NO. WALL/EAST | HOMOGENEOUS; FRIABLE; WHITE; PLASTER; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |

Lab Supervisor Signature and Date: _____ 1/22/14

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## FACILITIES SERVICES DIVISION
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

33840

SITE NAME: San Pedro H.S CODE: 8850 PROJECT DESC: Four Chemistry Labs Sopety PIC PROJ.#: 10363848

SAMPLED BY: Byron Castro DATE SAMPLED: 12/3/14 DEPT. / CONSULTANT: Panacea Inc. TEL. NO: 562 860-2869

Fill in all information legibly and precisely. Sampler should make a copy before submitting samples to the lab. **USE BLACK/BLUE INK ONLY**
Original to FSD lab with samples. Results and a copy of the Chain of Custody with sample numbers will be submitted to ATU when completed.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (CIRCLE ONE) |
|---|---|---|---|---|---|---|---|
| 1412-0145 | B-1 | 013 BCP | Classroom Bldg #2 | Faculty Work Room | S/East | Floor Tile w/ Black Mastic | YES / (NO) |
| 1412-0146 | B-2 | | | 242A | S/west | 9x9 | YES / (NO) |
| 1412-0147 | B-3 | | | 243 | West | | YES / (NO) |
| 1412-0148 | B-4 | | | Storage | North | | YES / (NO) |
| 1412-0149 | B-5 | | | 242 | S/West | | YES / (NO) |
| 1412-0150 | B-6 | | | 241 | N/East | | YES / (NO) |
| 1412-0151 | B-7 | | | Fan Room | S/west | Sand Plaster WALL | YES / (NO) |
| 1412-0152 | B-8 | | | | West | | YES / (NO) |
| 1412-0153 | B-9 | | | | S/east | | YES / (NO) |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |
| | | | | | | | YES / NO |

| DATE: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | NO. OF SAMPLES |
|---|---|---|---|---|
| 12/10/14 | 3:30 PM | Byron Castro By | Panacea Inc. | (9) |
| 12/12/2014 | 3:30 PM | L Noble L Noble | FSD Lab | 9 |
| | | | | |
| | | | | |
| | | | | |

Work order number with valid job ticket number is required for sample analysis. Please complete before submitting.
AWMS Work Order #: 25149212

Project Type (check one): ☐ Maintenance ☐ Deferred Maintenance ☐ Bond (specify BB,K,R,Y, or Q) ____ ☐ Other (Describe) ____

Rev. 9/24/08

Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 12/12/2014



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2014120145-A | LN | 12/15/2014 | 013BCP : CLSRM. BLD. 2<br>FACULTY WORKRM<br>SE | HOMOGENEOUS;<br>NON-FRIABLE;<br>GRAY;<br>FLOOR TILE;<br>FLAT SOLID | 6 | 0 | 0 | 0 | 0 | 0 | 6 | BINDER |
| 2014120145-B | LN | 12/15/2014 | 013BCP : CLSRM. BLD. 2<br>FACULTY WORKRM<br>SE | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 6 | 0 | 0 | 0 | 0 | 0 | 6 | TAR |
| 2014120146-A | LN | 12/15/2014 | 013BCP : CLSRM. BLD. 2<br>RM. 242A<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>GRAY;<br>FLOOR TILE;<br>FLAT SOLID | 6 | 0 | 0 | 0 | 0 | 0 | 6 | BINDER |
| 2014120146-B | LN | 12/15/2014 | 013BCP : CLSRM. BLD. 2<br>RM. 242A<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 6 | 0 | 0 | 0 | 0 | 0 | 6 | TAR |
| 2014120147-A | LN | 12/15/2014 | 013BCP : CLSRM. BLD. 2<br>RM. 243<br>WEST | HOMOGENEOUS;<br>NON-FRIABLE;<br>GRAY;<br>FLOOR TILE;<br>FLAT SOLID | 6 | 0 | 0 | 0 | 0 | 0 | 6 | BINDER |
| 2014120147-B | LN | 12/15/2014 | 013BCP : CLSRM. BLD. 2<br>RM. 243<br>WEST | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 6 | 0 | 0 | 0 | 0 | 0 | 6 | TAR |
| 2014120148-A | LN | 12/15/2014 | 013BCP : CLSRM. BLD. 2<br>STORAGE<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>TAN;<br>FLOOR TILE;<br>FLAT SOLID | 6 | 0 | 0 | 0 | 0 | 0 | 6 | BINDER |
| 2014120148-B | LN | 12/15/2014 | 013BCP : CLSRM. BLD. 2<br>STORAGE<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 6 | 0 | 0 | 0 | 0 | 0 | 6 | TAR |
| 2014120149-A | LN | 12/15/2014 | 013BCP : CLSRM. BLD. 2<br>RM. 242<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>TAN;<br>FLOOR TILE;<br>FLAT SOLID | 6 | 0 | 0 | 0 | 0 | 0 | 6 | BINDER |

Lab Supervisor Signature and Date: 12/15/14

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 12/12/2014



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2014120149-B | LN | 12/15/2014 | 013BCP : CLSRM. BLD. 2<br>RM. 242<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 6 | 0 | 0 | 0 | 0 | 0 | 6 | TAR |
| 2014120150-A | LN | 12/15/2014 | 013BCP : CLSRM. BLD. 2<br>RM. 241<br>NE | HOMOGENEOUS;<br>NON-FRIABLE;<br>TAN;<br>FLOOR TILE;<br>FLAT SOLID | 6 | 0 | 0 | 0 | 0 | 0 | 6 | BINDER |
| 2014120150-B | LN | 12/15/2014 | 013BCP : CLSRM. BLD. 2<br>RM. 241<br>NE | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 6 | 0 | 0 | 0 | 0 | 0 | 6 | TAR |
| 2014120151-A | LN | 12/15/2014 | 013BCP : CLSRM. BLD. 2<br>FAN RM<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>WHITE;<br>SAND PLASTER;<br>GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2014120151-B | LN | 12/15/2014 | 013BCP : CLSRM. BLD. 2<br>FAN RM<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>OFF WHITE;<br>PLASTER;<br>GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2014120152-A | LN | 12/15/2014 | 013BCP : CLSRM. BLD. 2<br>FAN RM<br>WEST | HOMOGENEOUS;<br>NON-FRIABLE;<br>WHITE;<br>SAND PLASTER;<br>GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2014120152-B | LN | 12/15/2014 | 013BCP : CLSRM. BLD. 2<br>FAN RM<br>WEST | HOMOGENEOUS;<br>NON-FRIABLE;<br>OFF WHITE;<br>PLASTER;<br>GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2014120153-A | LN | 12/15/2014 | 013BCP : CLSRM. BLD. 2<br>FAN RM<br>SE | HOMOGENEOUS;<br>NON-FRIABLE;<br>WHITE;<br>PAINT;<br>PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2014120153-B | LN | 12/15/2014 | 013BCP : CLSRM. BLD. 2<br>FAN RM<br>SE | HOMOGENEOUS;<br>NON-FRIABLE;<br>WHITE;<br>SAND PLASTER;<br>GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |

Lab Supervisor Signature and Date: 12/15/14

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
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Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 12/12/2014



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2014120153-C | LN | 12/15/2014 | 013BCP : CLSRM. BLD. 2 FAN RM SE | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; PLASTER; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |

Lab Supervisor Signature and Date: 12/15/14

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## FACILITIES SERVICES DIVISION
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT DESC: Campus Modernization 34618 COLIN #: 10366808

SAMPLED BY: Glenn Colquitt DATE SAMPLED: 2-8-16 DEPT. / CONSULTANT: CNS ENV. TEL: 714-525-5115

Fill in all information legibly and precisely. Original must be submitted with the samples. Make a copy before submitting samples. Results and a copy of the Chain of Custody (COC) with sample numbers will be submitted to FETU when analysis is completed. ***USE BLACK/BLUE INK ONLY. DO NOT USE WHITE OUT! ALL RUSH ANALYSIS AND POINT COUNT REQUESTS MUST BE APPROVED BY FETU SUPERVISORS.***

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (YES or NO) |
|---|---|---|---|---|---|---|---|
| 1603-0000 | 01 | 001CBJ | Industrial Arts | 163 | SW | Hvac Sealant on Seams | NO |
| 1603-0001 | 02 | ↓ | ↓ | ↓ | West | ↓ | ↓ |
| 1603-0002 | 03 | ↓ | ↓ | 161 | South | ↓ | ↓ |
| 1603-0003 | 04 | 015 DCS | Shop BLD | 166 | SW | Cement Board walls | ↓ |
| 1603-0004 | 05 | ↓ | ↓ | ↓ | West | ↓ | ↓ |
| 1603-0005 | 06 | ↓ | ↓ | ↓ | NW | ↓ | ↓ |
| 1603-0006 | 07 | ↓ | ↓ | Plant manager | SE | 12X12 Brown Floor Tile w/MASTIC | ↓ |
| 1603-0007 | 08 | ↓ | ↓ | men's locker rm | NE | ↓ | ↓ |
| 1603-0008 | 09 | ↓ | ↓ | Plant manager | SW | ↓ | ↓ |
| 1603-0009 | 10 | ↓ | ↓ | womans locker rm | SE | 12X12 white Floor Tile/MASTIC | ↓ |
| 1603-0010 | 11 | ↓ | ↓ | 173 | N W | ↓ | ↓ |
| 1603-0011 | 12 | ↓ | ↓ | 173 | NE | ↓ | ↓ |

| I | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | # OF SAMPLES |
|---|---|---|---|---|
| 2-24-16 | 2:45pm | Glenn Colquitt G. A. Colquitt | CNS - ENV. | 12 |
| 2/24/16 | 4:32 PM | Robert Estrada Robert Estrada | F.E.T.U. | 12 |
| 3/1/16 | 8-15 AM | Mohd Suldi | PSD Lab | 12 |
| | | | | |
| | | | | |

Maximo Work Order Number: 26044559 Project Type: ☐ Maintenance (MA) ☐ Deferred Maintenance ☐ Bond (specify: K,R,Y,Q) ☐ Other:

*FETU USE ONLY*

FETU REVIEWED BY: Gus Neri RUSH? ☐ Yes ☒ No APPROVAL:

FETU REVIEW DATE: 2-29-16 POINT COUNT? ☐ Yes ☐ No PT. CT. RUSH? ☐ Yes ☐ No APPROVAL:

Rev. 9/3/15

Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030000-A | MS | 03/01/2016 | 001CBJ : INDUST. ARTS RM. 163 SW | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030000-B | MS | 03/01/2016 | 001CBJ : INDUST. ARTS RM. 163 SW | HOMOGENEOUS; NON-FRIABLE; GRAY; SEALANT; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3% SYNTHETIC BINDER |
| 2016030000-C | MS | 03/01/2016 | 001CBJ : INDUST. ARTS RM. 163 SW | HOMOGENEOUS; NON-FRIABLE; LITE BROWN; SEALANT; RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030001-A | MS | 03/01/2016 | 001CBJ : INDUST. ARTS RM. 163 WEST | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030001-B | MS | 03/01/2016 | 001CBJ : INDUST. ARTS RM. 163 WEST | HOMOGENEOUS; NON-FRIABLE; LT.GRAY; SEALANT; RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030002-A | MS | 03/01/2016 | 001CBJ : INDUST. ARTS RM. 161 SOUTH | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030002-B | MS | 03/01/2016 | 001CBJ : INDUST. ARTS RM. 161 SOUTH | HOMOGENEOUS; NON-FRIABLE; GRAY; SEALANT; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3% SYNTHETIC BINDER |
| 2016030003 | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 166 SW | HOMOGENEOUS; NON-FRIABLE; LT.GRAY; CEMENT; CEMENTITIOUS | 15 | 0 | 0 | 0 | 0 | 0 | 15 | BINDER |
| 2016030004 | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 166 WEST | HOMOGENEOUS; NON-FRIABLE; LT.GRAY; CEMENT; CEMENTITIOUS | 15 | 0 | 0 | 0 | 0 | 0 | 15 | BINDER |

Lab Supervisor Signature and Date: _____ 3/2/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030005 | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 166 NW | HOMOGENEOUS; NON-FRIABLE; LT.GRAY; CEMENT; CEMENTITIOUS | 15 | 0 | 0 | 0 | 0 | 0 | 15 | BINDER |
| 2016030006-A | MS | 03/01/2016 | 015DCS : SHOP BLDG. PLANT MGR. SE | HOMOGENEOUS; NON-FRIABLE; BROWN; FLOOR TILE; VINYL | 7 | 0 | 0 | 0 | 0 | 0 | 7 | BINDER |
| 2016030006-B | MS | 03/01/2016 | 015DCS : SHOP BLDG. PLANT MGR. SE | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; RESIN-LIKE | 7 | 0 | 0 | 0 | 0 | 0 | 7 | TAR |
| 2016030007-A | MS | 03/01/2016 | 015DCS : SHOP BLDG. MENS LOCKER RM NE | HOMOGENEOUS; NON-FRIABLE; BROWN; FLOOR TILE; VINYL | 7 | 0 | 0 | 0 | 0 | 0 | 7 | BINDER |
| 2016030007-B | MS | 03/01/2016 | 015DCS : SHOP BLDG. MENS LOCKER RM NE | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; RESIN-LIKE | 7 | 0 | 0 | 0 | 0 | 0 | 7 | TAR |
| 2016030008-A | MS | 03/01/2016 | 015DCS : SHOP BLDG. PLANT MGR. SW | HOMOGENEOUS; NON-FRIABLE; BROWN; FLOOR TILE; VINYL | 7 | 0 | 0 | 0 | 0 | 0 | 7 | BINDER |
| 2016030008-B | MS | 03/01/2016 | 015DCS : SHOP BLDG. PLANT MGR. SW | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; RESIN-LIKE | 7 | 0 | 0 | 0 | 0 | 0 | 7 | TAR |
| 2016030009-A | MS | 03/01/2016 | 015DCS : SHOP BLDG. WOMENS LOCKER RM SE | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; FLOOR TILE; VINYL | 7 | 0 | 0 | 0 | 0 | 0 | 7 | BINDER |
| 2016030009-B | MS | 03/01/2016 | 015DCS : SHOP BLDG. WOMENS LOCKER RM SE | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; RESIN-LIKE | 7 | 0 | 0 | 0 | 0 | 0 | 7 | TAR |

Lab Supervisor Signature and Date: 3/2/16

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030010-A | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 173 NW | HOMOGENEOUS; NON-FRIABLE; BROWN; FLOOR TILE; VINYL | 7 | 0 | 0 | 0 | 0 | 0 | 7 | BINDER |
| 2016030010-B | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 173 NW | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; RESIN-LIKE | 7 | 0 | 0 | 0 | 0 | 0 | 7 | TAR |
| 2016030011-A | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 173 NE | HOMOGENEOUS; NON-FRIABLE; BROWN; FLOOR TILE; VINYL | 7 | 0 | 0 | 0 | 0 | 0 | 7 | BINDER |
| 2016030011-B | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 173 NE | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; RESIN-LIKE | 7 | 0 | 0 | 0 | 0 | 0 | 7 | TAR |

Lab Supervisor Signature and Date: 3/2/16

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## FACILITIES SERVICES DIVISION
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

34619

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT DESC: Campus modernization COLIN #: (o 366808)

SAMPLED BY: Glenn Colquitt DATE SAMPLED: 2-8-16 DEPT. / CONSULTANT: CNS. ENV. TEL: 714 525-5115

Fill in all information legibly and precisely. Original must be submitted with the samples. Make a copy before submitting samples. Results and a copy of the Chain of Custody (COC) with sample numbers will be submitted to FETU when analysis is completed. ***USE BLACK/BLUE INK ONLY. DO NOT USE WHITE OUT! ALL RUSH ANALYSIS AND POINT COUNT REQUESTS MUST BE APPROVED BY FETU SUPERVISORS.***

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (YES or NO) |
|---|---|---|---|---|---|---|---|
| 1603-0012 | 13 | 015DCS | Shop BLD | 173 | NE | BLACK BASE Cove w/ MASTIC | NO |
| 1603-0013 | 14 | ↓ | ↓ | Women's Locker | NW | ↓ | ↓ |
| 1603-0014 | 15 | ↓ | ↓ | Mens Locker | NW | ↓ | ↓ |
| 1603-0015 | 16 | ↓ | ↓ | 172 | SE | Gray carpet w/yellow mastic | ↓ |
| 1603-0016 | 17 | ↓ | ↓ | ↓ | NE | ↓ | ↓ |
| 1603-0017 | 18 | ↓ | ↓ | ↓ | NW | ↓ | ↓ |
| 1603-0018 | 19 | ↓ | ↓ | ↓ | NW | 12X12 Grey FLOOR TILE w/yellow mastic | ↓ |
| 1603-0019 | 20 | ↓ | ↓ | ↓ | SW | ↓ | ↓ |
| 1603-0020 | 21 | ↓ | ↓ | ↓ | NE | ↓ | ↓ |
| 1603-0021 | 22 | X2384P | 2/3 Relocatable | 13 | NE | 4" BROWN COVE BASE w/ MASTIC | ↓ |
| 1603-0022 | 23 | ↓ | ↓ | ↓ | EAST | ↓ | ↓ |
| 1603-0023 | 24 | ↓ | ↓ | ↓ | SW | ↓ | ↓ |

| | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | # OF SAMPLES |
|---|---|---|---|---|
| 2-24-16 | 2:45pm | Glenn Colquitt G.A. Colquitt | CNS ENV. | 12 |
| 2/24/16 | 4:33 P/M | Robert Estrada Robert Estrada | F.E.T.U. | 12 |
| 3/1/16 | 8:15 am | MOM Suldi | PSD Lab | 12 |
| | | | | |
| | | | | |

Maximo Work Order Number: 26044559 Project Type: ☐ Maintenance (MA) ☐ Deferred Maintenance ☐ Bond (specify: K,R,Y,Q) ☐ Other:

***FETU USE ONLY***

FETU REVIEWED BY: Gus Nepi RUSH? ☐ Yes ☑ No APPROVAL:

FETU REVIEW DATE: 2-29-16 POINT COUNT? ☐ Yes ☐ No PT. CT. RUSH? ☐ Yes ☐ No APPROVAL:

Rev. 9/3/15

Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030012-A | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 173 NE | HOMOGENEOUS; NON-FRIABLE; CLEAR; COATING; COATED MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030012-B | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 173 NE | HOMOGENEOUS; NON-FRIABLE; BLACK; COVE BASE; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030012-C | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 173 NE | HOMOGENEOUS; NON-FRIABLE; BROWN; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4% FIBROUS TALC ADHESIVE |
| 2016030013-A | MS | 03/01/2016 | 015DCS : SHOP BLDG. WOMEN LOCKER NW | HOMOGENEOUS; NON-FRIABLE; CLEAR; COATING; COATED MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030013-B | MS | 03/01/2016 | 015DCS : SHOP BLDG. WOMEN LOCKER NW | HOMOGENEOUS; NON-FRIABLE; BLACK; COVE BASE; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030013-C | MS | 03/01/2016 | 015DCS : SHOP BLDG. WOMEN LOCKER NW | HOMOGENEOUS; NON-FRIABLE; BROWN; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4% FIBROUS TALC ADHESIVE |
| 2016030013-D | MS | 03/01/2016 | 015DCS : SHOP BLDG. WOMEN LOCKER NW | HOMOGENEOUS; NON-FRIABLE; BLUE GREEN; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030013-E | MS | 03/01/2016 | 015DCS : SHOP BLDG. WOMEN LOCKER NW | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; PLASTER; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030014-A | MS | 03/01/2016 | 015DCS : SHOP BLDG. MENS LOCKER NW | HOMOGENEOUS; NON-FRIABLE; CLEAR; COATING; COATED MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |

Lab Supervisor Signature and Date: 3/3/16

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030014-B | MS | 03/01/2016 | 015DCS : SHOP BLDG. MENS LOCKER NW | HOMOGENEOUS; NON-FRIABLE; BLACK; COVE BASE; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030014-C | MS | 03/01/2016 | 015DCS : SHOP BLDG. MENS LOCKER NW | HOMOGENEOUS; NON-FRIABLE; BROWN; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4% FIBROUS TALC ADHESIVE |
| 2016030015-A | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 172 SE | HOMOGENEOUS; NON-FRIABLE; YELLOW; CARPET/MASTIC; RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030015-B | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 172 SE | HOMOGENEOUS; NON-FRIABLE; LITE BROWN; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030015-C | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 172 SE | HOMOGENEOUS; NON-FRIABLE; GRAY; CONCRETE; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030016-A | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 172 NE | HOMOGENEOUS; NON-FRIABLE; YELLOW; CARPET/MASTIC; RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030016-B | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 172 NE | HOMOGENEOUS; NON-FRIABLE; LITE BROWN; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030016-C | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 172 NE | HOMOGENEOUS; NON-FRIABLE; GRAY; CONCRETE; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030017-A | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 172 NW | HOMOGENEOUS; NON-FRIABLE; YELLOW; CARPET/MASTIC; RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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Facilities Services Division Laboratory
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Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030017-B | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 172 NW | HOMOGENEOUS; NON-FRIABLE; LITE BROWN; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030017-C | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 172 NW | HOMOGENEOUS; NON-FRIABLE; GRAY; CONCRETE; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030018-A | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 172 NW | HOMOGENEOUS; NON-FRIABLE; GRAY; FLOOR TILE; VINYL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030018-B | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 172 NW | HOMOGENEOUS; NON-FRIABLE; YELLOW; ADHESIVE; RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030019-A | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 172 SW | HOMOGENEOUS; NON-FRIABLE; GRAY; FLOOR TILE; VINYL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030019-B | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 172 SW | HOMOGENEOUS; NON-FRIABLE; YELLOW; ADHESIVE; RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030020-A | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 172 NE | HOMOGENEOUS; NON-FRIABLE; GRAY; FLOOR TILE; VINYL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030020-B | MS | 03/01/2016 | 015DCS : SHOP BLDG. RM. 172 NE | HOMOGENEOUS; NON-FRIABLE; YELLOW; ADHESIVE; RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030021-A | MS | 03/01/2016 | X2384P : 2/3 RELOC. RM. 13 NE | HOMOGENEOUS; NON-FRIABLE; CLEAR; COATING; COATED MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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Facilities Services Division Laboratory
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Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030021-B | MS | 03/01/2016 | X2384P : 2/3 RELOC. RM. 13 NE | HOMOGENEOUS; NON-FRIABLE; BROWN; COVE BASE; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030021-C | MS | 03/01/2016 | X2384P : 2/3 RELOC. RM. 13 NE | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030022-A | MS | 03/01/2016 | X2384P : 2/3 RELOC. RM. 13 EAST | HOMOGENEOUS; NON-FRIABLE; CLEAR; COATING; COATED MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030022-B | MS | 03/01/2016 | X2384P : 2/3 RELOC. RM. 13 EAST | HOMOGENEOUS; NON-FRIABLE; BROWN; COVE BASE; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030022-C | MS | 03/01/2016 | X2384P : 2/3 RELOC. RM. 13 EAST | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030023-A | MS | 03/01/2016 | X2384P : 2/3 RELOC. RM. 13 SW | HOMOGENEOUS; NON-FRIABLE; CLEAR; COATING; COATED MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030023-B | MS | 03/01/2016 | X2384P : 2/3 RELOC. RM. 13 SW | HOMOGENEOUS; NON-FRIABLE; BROWN; COVE BASE; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030023-C | MS | 03/01/2016 | X2384P : 2/3 RELOC. RM. 13 SW | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## FACILITIES SERVICES DIVISION
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT DESC: Campus Modernization 34620 COLIN #: 16366808

SAMPLED BY: Glenn Colquitt DATE SAMPLED: 2-8-16 DEPT. / CONSULTANT: CWS ENV. TEL: 714-525-5115

Fill in all information legibly and precisely. Original must be submitted with the samples. Make a copy before submitting samples. Results and a copy of the Chain of Custody (COC) with sample numbers will be submitted to FETU when analysis is completed. ***USE BLACK/BLUE INK ONLY. DO NOT USE WHITE OUT! ALL RUSH ANALYSIS AND POINT COUNT REQUESTS MUST BE APPROVED BY FETU SUPERVISORS.***

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (YES or NO) |
|---|---|---|---|---|---|---|---|
| 1603-0024 | 25 | 001 CBJ | Industrial Arts | Roof | SW | Patch Pocket mastic Black & Gray | NO |
| 1603-0025 | 26 | ↓ | ↓ | ↓ | Center | ↓ | ↓ |
| 1603-0026 | 27 | ↓ | ↓ | ↓ | East | ↓ | ↓ |
| 1603-0027 | 28 | ↓ | ↓ | ↓ | SW | Black Penetration mastic | ↓ |
| 1603-0028 | 29 | ↓ | ↓ | ↓ | South | ↓ | ↓ |
| 1603-0029 | 30 | ↓ | ↓ | ↓ | SE | ↓ | ↓ |
| 1603-0030 | 31 | ↓ | ↓ | ↓ | North | white patch cloth on parapet | ↓ |
| 1603-0031 | 32 | ↓ | ↓ | ↓ | East | ↓ | ↓ |
| 1603-0032 | 33 | ↓ | ↓ | ↓ | South | ↓ | ↓ |
| 1603-0033 | 34 | ↓ | ↓ | ↓ | Center | Kick sheet | ↓ |
| 1603-0034 | 35 | ↓ | ↓ | ↓ | East-center A/C unit | ↓ | ↓ |
| 1603-0035 | 36 | ↓ | ↓ | ↓ | NE | ↓ | ↓ |

| DATE: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | # OF SAMPLES |
|---|---|---|---|---|
| 2-24-16 | 2:45pm | Glenn Colquitt G.A. Colquitt | CWS ENV. | 12 |
| 2/24/16 | 4:34 p/m | Robert Estrada Robert Estrada | F.E.T.J. | 12 |
| 3/1/16 | 9:15am | Mohd Sulci | PSD LAS | 12 |
| | | | | |
| | | | | |

Maximo Work Order Number: 76044559 Project Type: ☐ Maintenance (MA) ☐ Deferred Maintenance ☐ Bond (specify: K,R,Y,Q) ☐ Other:

*FETU USE ONLY*

FETU REVIEWED BY: Gus Neri RUSH? ☐ Yes ☒ No APPROVAL:

FETU REVIEW DATE: 2-29-16 POINT COUNT? ☐ Yes ☐ No PT. CT. RUSH? ☐ Yes ☐ No APPROVAL:

Rev. 9/3/15

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**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030024 | MS | 03/01/2016 | 001CBJ : INDUST. ARTS<br>ROOF<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>PITCH POCKET;<br>TAR/ FIBROUS | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 10% CELLULOSE, 2%<br>FIBERGLASS<br>TAR |
| 2016030025-A | MS | 03/01/2016 | 001CBJ : INDUST. ARTS<br>ROOF<br>CENTER | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>PITCH POCKET;<br>TAR/ FIBROUS | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 10% CELLULOSE, 2%<br>FIBERGLASS<br>TAR |
| 2016030025-B | MS | 03/01/2016 | 001CBJ : INDUST. ARTS<br>ROOF<br>CENTER | HOMOGENEOUS;<br>NON-FRIABLE;<br>OFF WHITE;<br>PAINT;<br>PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030025-C | MS | 03/01/2016 | 001CBJ : INDUST. ARTS<br>ROOF<br>CENTER | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>TAR;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% FIBERGLASS<br>TAR |
| 2016030026-A | MS | 03/01/2016 | 001CBJ : INDUST. ARTS<br>ROOF<br>EAST | HOMOGENEOUS;<br>NON-FRIABLE;<br>BROWN;<br>PAINT;<br>PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030026-B | MS | 03/01/2016 | 001CBJ : INDUST. ARTS<br>ROOF<br>EAST | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>PITCH POCKET;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% FIBERGLASS<br>TAR |
| 2016030026-C | MS | 03/01/2016 | 001CBJ : INDUST. ARTS<br>ROOF<br>EAST | HOMOGENEOUS;<br>NON-FRIABLE;<br>OFF WHITE;<br>PAINT;<br>PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030026-D | MS | 03/01/2016 | 001CBJ : INDUST. ARTS<br>ROOF<br>EAST | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>PITCH POCKET;<br>TAR/ FIBROUS | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 10% CELLULOSE, 2%<br>FIBERGLASS<br>TAR |
| 2016030027 | MS | 03/01/2016 | 001CBJ : INDUST. ARTS<br>ROOF<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR/ FIBROUS | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 10% CELLULOSE, 1%<br>FIBERGLASS<br>TAR |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

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# Asbestos Bulk Sample Analysis
## Laboratory Report

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030028-A | MS | 03/01/2016 | 001CBJ : INDUST. ARTS<br>ROOF<br>SOUTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>OFF WHITE;<br>COATING;<br>COATED MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030028-B | MS | 03/01/2016 | 001CBJ : INDUST. ARTS<br>ROOF<br>SOUTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR/ FIBROUS | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 10% CELLULOSE, 1% FIBERGLASS<br>TAR |
| 2016030029-A | MS | 03/01/2016 | 001CBJ : INDUST. ARTS<br>ROOF<br>SE | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE<br>TAR |
| 2016030029-B | MS | 03/01/2016 | 001CBJ : INDUST. ARTS<br>ROOF<br>SE | HOMOGENEOUS;<br>NON-FRIABLE;<br>OFF WHITE;<br>COATING;<br>COATED MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030029-C | MS | 03/01/2016 | 001CBJ : INDUST. ARTS<br>ROOF<br>SE | HOMOGENEOUS;<br>NON-FRIABLE;<br>LITE BROWN;<br>SEALANT;<br>RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030029-D | MS | 03/01/2016 | 001CBJ : INDUST. ARTS<br>ROOF<br>SE | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR/ FIBROUS | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 10% CELLULOSE, 1% FIBERGLASS<br>TAR |
| 2016030030-A | MS | 03/01/2016 | 001CBJ : INDUST. ARTS<br>ROOF<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>OFF WHITE;<br>COATING;<br>COATED MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030030-B | MS | 03/01/2016 | 001CBJ : INDUST. ARTS<br>ROOF<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>OFF WHITE;<br>CLOTH/SASH;<br>COATED/ CLOTH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60% FIBERGLASS<br>BINDER |
| 2016030030-C | MS | 03/01/2016 | 001CBJ : INDUST. ARTS<br>ROOF<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>GREEN;<br>PAINT;<br>PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, PAINT |

**COMMENT(S): DIFFERENT FROM 1603/0031 & 0032.**

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

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| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030030-D | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF NORTH | HOMOGENEOUS; NON-FRIABLE; BROWN; COATING; GRANULAR | 2 | 0 | 0 | 0 | 0 | 0 | 2 | BINDER, ROCK |
| | | | | COMMENT(S): SMALL AMOUNT OF SAMPLE. | | | | | | | | |
| 2016030031-A | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF EAST | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; COATING; COATED MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030031-B | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF EAST | HOMOGENEOUS; NON-FRIABLE; LT.GRAY; SEALANT; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030031-C | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF EAST | HOMOGENEOUS; NON-FRIABLE; GREEN; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, PAINT |
| 2016030031-D | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF EAST | HOMOGENEOUS; NON-FRIABLE; GRAY; STUCCO; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030032-A | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF SOUTH | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; CLOTH/SASH; COATED/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40% SYNTHETIC BINDER |
| 2016030032-B | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF SOUTH | HOMOGENEOUS; NON-FRIABLE; GREEN; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, PAINT |
| 2016030032-C | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF SOUTH | HOMOGENEOUS; NON-FRIABLE; GRAY; STUCCO; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030033-A | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF CENTER | HOMOGENEOUS; NON-FRIABLE; BLACK; KICKSHEET; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15% SYNTHETIC ROCK, TAR |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030033-B | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF CENTER | HOMOGENEOUS; NON-FRIABLE; BLACK; KICKSHEET; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15% SYNTHETIC ROCK, TAR |
| 2016030033-C | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF CENTER | HOMOGENEOUS; NON-FRIABLE; BLACK; KICKSHEET; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15% SYNTHETIC ROCK, TAR |
| 2016030033-D | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF CENTER | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20% SYNTHETIC TAR |
| 2016030033-E | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF CENTER | HOMOGENEOUS; NON-FRIABLE; BROWN; SUBSTRATE; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE PERLITE |
| 2016030034-A | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF EAST/CTR AC UNIT | HOMOGENEOUS; NON-FRIABLE; BLACK; KICKSHEET; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25% FIBERGLASS ROCK, TAR |
| | | | | | **COMMENT(S): DIFFERENT FROM 1603/0033 & 0035.** | | | | | | | |
| 2016030034-B | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF EAST/CTR AC UNIT | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030034-C | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF EAST/CTR AC UNIT | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030034-D | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF EAST/CTR AC UNIT | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030034-E | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF EAST/CTR AC UNIT | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
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Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

**NVLAP LAB# 101505-0**
**Method EPA/600/R-93/116(MOD) July 1993**
**Date Received: 03/01/2016**



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030034-F | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF EAST/CTR AC UNIT | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 30 | 0 | 0 | 0 | 0 | 0 | 30 | 15% CELLULOSE, 3% FIBERGLASS TAR |
| 2016030035-A | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF NE | HOMOGENEOUS; NON-FRIABLE; BLACK; KICKSHEET; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25% FIBERGLASS ROCK, TAR |
| 2016030035-B | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF NE | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030035-C | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF NE | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030035-D | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF NE | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030035-E | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF NE | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |

Lab Supervisor Signature and Date: 3/3/16

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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Los Angeles Unified School District
Facilities Services Division
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 745-1138

# Asbestos Point Count Analysis Laboratory Report

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116 (1000 Point Count)
Date Sampled: 2/8/2016
Date Received: 3/1/2016
Date Requested: 3/7/2016



| LAUSD Lab# | MIC | Date Analyzed | Material Description | Percentage Reduction | | | Detection Limit | Counts | | Analytical Results |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ashed | Acidification | Total | | Asbestos | Total | |
| 2016030024 | MS | 3/8/2016 | Pitch Pocket Mastic | 77.5090 | 3.8745 | 81.3835 | 0.02 | 12 | 1000 | 0.22% Chrysotile |
| 2016030025A | MS | 3/8/2016 | Pitch Pocket Mastic | 73.5454 | 4.7444 | 78.2898 | 0.02 | 14 | 1000 | 0.30% Chrysotile |
| 2016030026D | MS | 3/8/2016 | Pitch Pocket Mastic | 73.0921 | 7.7865 | 80.8786 | 0.02 | 25 | 1000 | 0.48% Chrysotile |
| 2016030027 | MS | 3/8/2016 | Penetration Mastic | 76.3116 | 4.4444 | 80.7560 | 0.02 | 15 | 1000 | 0.29% Chrysotile |
| 2016030028B | MS | 3/8/2016 | Penetration Mastic | 73.8028 | 6.2742 | 80.0770 | 0.02 | 3 | 1000 | <0.1 % |
| 2016030029D | MS | 3/8/2016 | Penetration Mastic | 70.0529 | 10.0078 | 80.0607 | 0.02 | 17 | 1000 | 0.34% Chrysotile |

Lab Supervisor Signature and Date: 3/9/2016

Signature of Analyst:

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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## FACILITIES SERVICES DIVISION
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT DESC: Comper. Modernization 34621 COLIN #: 10366808

SAMPLED BY: Glenn Colquitt DATE SAMPLED: 2-8-16 DEPT. / CONSULTANT: Cons. Env. TEL: 714-565-5415

Fill in all information legibly and precisely. Original must be submitted with the samples. Make a copy before submitting samples. Results and a copy of the Chain of Custody (COC) with sample numbers will be submitted to FETU when analysis is completed. ***USE BLACK/BLUE INK ONLY. DO NOT USE WHITE OUT! ALL RUSH ANALYSIS AND POINT COUNT REQUESTS MUST BE APPROVED BY FETU SUPERVISORS.***

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (YES or NO) |
|---|---|---|---|---|---|---|---|
| 1603-0036 | 37 | 001 CBB | Industrial Arts | ROOF | SE | Parapet wall | NO |
| 1603-0037 | 38 | ↓ | ↓ | ↓ | South | ↓ | ↓ |
| 1603-0038 | 39 | ↓ | ↓ | ↓ | SW | ↓ | ↓ |
| 1603-0039 | 40 | 20192-S | 2/2 Relocatable | B4 | SW | Beaver orange 12x12 Floor tile w/ mastic | ↓ |
| 1603-0040 | 41 | ↓ | ↓ | B3 | NW | ↓ | ↓ |
| 1603-0041 | 42 | ↓ | ↓ | B4 | NE | ↓ | ↓ |
| 1603-0042 | 43 | ↓ | ↓ | ↓ | North | 12x12 Floor Tile Beaver Patch w/yellow mastic | ↓ |
| 1603-0043 | 44 | ↓ | ↓ | ↓ | SW | ↓ | ↓ |
| 1603-0044 | 45 | ↓ | ↓ | ↓ | EAST | ↓ | ↓ |
| 1603-0045 | 46 | ↓ | 2/2 Relocatable 2-story | B5 | NW | white cloth on Elec pipe Insulation | ↓ |
| 1603-0046 | 47 | ↓ | ↓ | ROOF | NW | Pitch Pocket mastic | ↓ |
| 1603-0047 | 48 | ↓ | ↓ | ↓ | SE | ↓ | ↓ |

| | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | # OF SAMPLES |
|---|---|---|---|---|
| 2-24-16 | 2-45 pm | Glenn Colquitt G.A. Colquitt | Cons Env. | 12 |
| 2/24/16 | 4:35 PM | Robert Estrada Robt Estrada | F.E.T.J. | 12 |
| 3/1/16 | 8:15am | Mohd Saldi | PSD Lab | 12 |
| | | | | |
| | | | | |

Maximo Work Order Number: 26044559 Project Type: ☐ Maintenance (MA) ☐ Deferred Maintenance ☐ Bond (specify: K,R,Y,Q) ☐ Other:

***FETU USE ONLY***

FETU REVIEWED BY: Gus Negri RUSH? ☐ Yes ☒ No APPROVAL:

FETU REVIEW DATE: 2-29-16 POINT COUNT? ☐ Yes ☐ No PT. CT. RUSH? ☐ Yes ☐ No APPROVAL:

Rev. 9/3/15

Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030036-A | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF SE | HOMOGENEOUS; NON-FRIABLE; BLACK; WALL MATERIAL; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS ROCK, TAR |
| 2016030036-B | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF SE | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030036-C | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF SE | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030036-D | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF SE | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030036-E | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF SE | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030036-F | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF SE | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 30 | 0 | 0 | 0 | 0 | 0 | 30 | 15% CELLULOSE, 3% FIBERGLASS TAR |
| 2016030037-A | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF SOUTH | HOMOGENEOUS; NON-FRIABLE; BLACK; WALL MATERIAL; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS ROCK, TAR |
| 2016030037-B | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF SOUTH | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030037-C | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF SOUTH | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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1449 S. San Pedro St.
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(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030037-D | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF SOUTH | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030037-E | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF SOUTH | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030037-F | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF SOUTH | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 30 | 0 | 0 | 0 | 0 | 0 | 30 | 15% CELLULOSE, 3% FIBERGLASS TAR |
| 2016030038-A | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF SW | HOMOGENEOUS; NON-FRIABLE; BLACK; WALL MATERIAL; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS ROCK, TAR |
| 2016030038-B | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF SW | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030038-C | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF SW | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030038-D | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF SW | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030038-E | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF SW | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030038-F | MS | 03/01/2016 | 001CBJ : INDUST. ARTS ROOF SW | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 30 | 0 | 0 | 0 | 0 | 0 | 30 | 15% CELLULOSE, 3% FIBERGLASS TAR |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030039-A | MS | 03/01/2016 | Z0182S : 2/3 RELOC. RM. B4 SW | HOMOGENEOUS; NON-FRIABLE; ORANGE; FLOOR TILE; VINYL | 5 | 0 | 0 | 0 | 0 | 0 | 5 | BINDER |
| 2016030039-B | MS | 03/01/2016 | Z0182S : 2/3 RELOC. RM. B4 SW | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; RESIN-LIKE | 7 | 0 | 0 | 0 | 0 | 0 | 7 | TAR |
| | | | | **COMMENT(S): SMALL AMOUNT OF SAMPLE.** | | | | | | | | |
| 2016030040-A | MS | 03/01/2016 | Z0182S : 2/3 RELOC. RM. B3 NW | HOMOGENEOUS; NON-FRIABLE; ORANGE; FLOOR TILE; VINYL | 5 | 0 | 0 | 0 | 0 | 0 | 5 | BINDER |
| 2016030040-B | MS | 03/01/2016 | Z0182S : 2/3 RELOC. RM. B3 NW | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; RESIN-LIKE | 7 | 0 | 0 | 0 | 0 | 0 | 7 | TAR |
| | | | | **COMMENT(S): SMALL AMOUNT OF SAMPLE.** | | | | | | | | |
| 2016030041-A | MS | 03/01/2016 | Z0182S : 2/3 RELOC. RM. B4 NE | HOMOGENEOUS; NON-FRIABLE; ORANGE; FLOOR TILE; VINYL | 5 | 0 | 0 | 0 | 0 | 0 | 5 | BINDER |
| 2016030041-B | MS | 03/01/2016 | Z0182S : 2/3 RELOC. RM. B4 NE | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; RESIN-LIKE | 7 | 0 | 0 | 0 | 0 | 0 | 7 | TAR |
| 2016030042-A | MS | 03/01/2016 | Z0182S : 2/3 RELOC. RM. B4 NORTH | HOMOGENEOUS; NON-FRIABLE; BROWN; FLOOR TILE; VINYL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030042-B | MS | 03/01/2016 | Z0182S : 2/3 RELOC. RM. B4 NORTH | HOMOGENEOUS; NON-FRIABLE; YELLOW; ADHESIVE; RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030043-A | MS | 03/01/2016 | Z0182S : 2/3 RELOC. RM. B4 SW | HOMOGENEOUS; NON-FRIABLE; BROWN; FLOOR TILE; VINYL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030043-B | MS | 03/01/2016 | Z0182S : 2/3 RELOC. RM. B4 SW | HOMOGENEOUS; NON-FRIABLE; YELLOW; ADHESIVE; RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030044-A | MS | 03/01/2016 | Z0182S : 2/3 RELOC. RM. B4 EAST | HOMOGENEOUS; NON-FRIABLE; BROWN; FLOOR TILE; VINYL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030044-B | MS | 03/01/2016 | Z0182S : 2/3 RELOC. RM. B4 EAST | HOMOGENEOUS; NON-FRIABLE; YELLOW; ADHESIVE; RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030045-A | MS | 03/01/2016 | Z0182S : 2/3 RELOC/2 STORY RM. B5 NW | HOMOGENEOUS; NON-FRIABLE; BLACK; TAR; TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, TAR |
| 2016030045-B | MS | 03/01/2016 | Z0182S : 2/3 RELOC/2 STORY RM. B5 NW | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; CANVAS; COATED/ CLOTH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60% CELLULOSE BINDER |
| 2016030045-C | MS | 03/01/2016 | Z0182S : 2/3 RELOC/2 STORY RM. B5 NW | HOMOGENEOUS; NON-FRIABLE; SILVER; FOIL; METAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | METAL |
| 2016030045-D | MS | 03/01/2016 | Z0182S : 2/3 RELOC/2 STORY RM. B5 NW | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; PAPER; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% CELLULOSE |
| 2016030045-E | MS | 03/01/2016 | Z0182S : 2/3 RELOC/2 STORY RM. B5 NW | HOMOGENEOUS; NON-FRIABLE; YELLOW; INSULATION; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95% FIBERGLASS DEBRIS |
| 2016030046-A | MS | 03/01/2016 | Z0182S : 2/3 RELOC/2 STORY ROOF NW | HOMOGENEOUS; NON-FRIABLE; SILVER; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |

Lab Supervisor Signature and Date: 3/3/16

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030046-B | MS | 03/01/2016 | Z0182S : 2/3 RELOC/2<br>STORY<br>ROOF<br>NW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE<br>TAR |
| 2016030047-A | MS | 03/01/2016 | Z0182S : 2/3 RELOC/2<br>STORY<br>ROOF<br>SE | HOMOGENEOUS;<br>NON-FRIABLE;<br>OFF WHITE;<br>COATING;<br>COATED MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030047-B | MS | 03/01/2016 | Z0182S : 2/3 RELOC/2<br>STORY<br>ROOF<br>SE | HOMOGENEOUS;<br>NON-FRIABLE;<br>SILVER;<br>PAINT;<br>PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030047-C | MS | 03/01/2016 | Z0182S : 2/3 RELOC/2<br>STORY<br>ROOF<br>SE | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE<br>TAR |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## FACILITIES SERVICES DIVISION
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT DESC: Campus modernization 34622

SAMPLED BY: Glenn Colquitt DATE SAMPLED: 2-6-16 DEPT. / CONSULTANT: CNS ENV. COLIN #: 10346808

TEL: 714-525-5115

Fill in all information legibly and precisely. Original must be submitted with the samples. Make a copy before submitting samples. Results and a copy of the Chain of Custody (COC) with sample numbers will be submitted to FETU when analysis is completed. ***USE BLACK/BLUE INK ONLY. DO NOT USE WHITE OUT! ALL RUSH ANALYSIS AND POINT COUNT REQUESTS MUST BE APPROVED BY FETU SUPERVISORS.***

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (YES or NO) |
|---|---|---|---|---|---|---|---|
| 1603-0048 | 49 | Z01825 | 2-story relocatable | roof | EAST | Pitch Bucket mastic | NO |
| 1603-0049 | 50 | | | | Center | Penetration mastic | |
| 1603-0050 | 51 | | | | North | | |
| 1603-0051 | 52 | | | | SW | | |
| 1603-0052 | 53 | | | | North | Rolled roofing | |
| 1603-0053 | 54 | | | | West | | |
| 1603-0054 | 55 | | | | East | | |
| 1603-0055 | 56 | | | B4 | North | Yellow/white duct sealing tape | |
| 1603-0056 | 57 | | | | South | | |
| 1603-0057 | 58 | | | B3 | North | | |
| 1603-0058 | 59 | | | B4 | NW | Cement Boards | |
| 1603-0059 | 60 | | | B4 | SW | | |

| | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | # OF SAMPLES |
|---|---|---|---|---|
| 2-24-16 | 2:45pm | Glenn Colquitt GA. Colquitt | CNS ENV. | 12 |
| 2/24/16 | 4:36 P/M | Robert Estrada Robert Estrada | F.E.T.J. | 12 |
| 3/1/16 | 8-15am | Mohd Suldi | PSD Lab | 12 |
| | | | | |
| | | | | |

Maximo Work Order Number: 28044559 Project Type: ☐ Maintenance (MA) ☐ Deferred Maintenance ☐ Bond (specify: K,R,Y,Q) ☐ Other:

FETU USE ONLY

FETU REVIEWED BY: Guc Nari RUSH? ☐ Yes ☑ No APPROVAL:

FETU REVIEW DATE: 2-29-16 POINT COUNT? ☐ Yes ☐ No PT. CT. RUSH? ☐ Yes ☐ No APPROVAL:

Rev. 9/3/15

Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030048-A | MS | 03/02/2016 | Z0182S : 2 STORY RELOC.<br>ROOF<br>EAST | HOMOGENEOUS;<br>NON-FRIABLE;<br>SILVER;<br>PAINT;<br>PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030048-B | MS | 03/02/2016 | Z0182S : 2 STORY RELOC.<br>ROOF<br>EAST | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE<br>TAR |
| 2016030049-A | MS | 03/02/2016 | Z0182S : 2 STORY RELOC.<br>ROOF<br>CENTER | HOMOGENEOUS;<br>NON-FRIABLE;<br>SILVER;<br>PAINT;<br>PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030049-B | MS | 03/02/2016 | Z0182S : 2 STORY RELOC.<br>ROOF<br>CENTER | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE<br>TAR |
| 2016030050-A | MS | 03/02/2016 | Z0182S : 2 STORY RELOC.<br>ROOF<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>SILVER;<br>PAINT;<br>PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030050-B | MS | 03/02/2016 | Z0182S : 2 STORY RELOC.<br>ROOF<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE<br>TAR |
| 2016030051-A | MS | 03/02/2016 | Z0182S : 2 STORY RELOC.<br>ROOF<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>SILVER;<br>PAINT;<br>PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030051-B | MS | 03/02/2016 | Z0182S : 2 STORY RELOC.<br>ROOF<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE<br>TAR |
| 2016030052-A | MS | 03/02/2016 | Z0182S : 2 STORY RELOC.<br>ROOF<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROLL ROOF;<br>TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25% FIBERGLASS<br>ROCK, TAR |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030052-B | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. ROOF NORTH | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030052-C | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. ROOF NORTH | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030052-D | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. ROOF NORTH | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030052-E | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. ROOF NORTH | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030053-A | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. ROOF WEST | HOMOGENEOUS; NON-FRIABLE; BLACK; ROLL ROOF; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25% FIBERGLASS ROCK, TAR |
| 2016030053-B | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. ROOF WEST | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030053-C | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. ROOF WEST | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030053-D | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. ROOF WEST | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030053-E | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. ROOF WEST | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |

Lab Supervisor Signature and Date: 3/3/16

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030054-A | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. ROOF EAST | HOMOGENEOUS; NON-FRIABLE; BLACK; ROLL ROOF; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25% FIBERGLASS ROCK, TAR |
| 2016030054-B | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. ROOF EAST | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030054-C | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. ROOF EAST | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030054-D | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. ROOF EAST | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030054-E | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. ROOF EAST | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030055-A | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. RM. B4 NORTH | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; DUCT TAPE; COATED/ CLOTH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60% CELLULOSE BINDER |
| 2016030055-B | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. RM. B4 NORTH | HOMOGENEOUS; NON-FRIABLE; YELLOW; SEALANT; RUBBERY | 4 | 0 | 0 | 0 | 0 | 0 | 4 | BINDER |
| 2016030056-A | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. RM. B4 SOUTH | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; DUCT TAPE; COATED/ CLOTH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60% CELLULOSE BINDER |
| 2016030056-B | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. RM. B4 SOUTH | HOMOGENEOUS; NON-FRIABLE; YELLOW; SEALANT; RUBBERY | 4 | 0 | 0 | 0 | 0 | 0 | 4 | BINDER |

Lab Supervisor Signature and Date: 3/3/16

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030057-A | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. RM. B3 NORTH | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; DUCT TAPE; COATED/ CLOTH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60% CELLULOSE BINDER |
| 2016030057-B | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. RM. B3 NORTH | HOMOGENEOUS; NON-FRIABLE; YELLOW; SEALANT; RUBBERY | 4 | 0 | 0 | 0 | 0 | 0 | 4 | BINDER |
| 2016030058-A | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. RM. B4 NW | HOMOGENEOUS; NON-FRIABLE; BLUE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030058-B | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. RM. B4 NW | HOMOGENEOUS; NON-FRIABLE; LT.GRAY; CEMENT; CEMENTITIOUS | 15 | 0 | 0 | 0 | 0 | 0 | 15 | BINDER |
| 2016030059-A | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. RM. B4 SW | HOMOGENEOUS; NON-FRIABLE; BLUE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030059-B | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. RM. B4 SW | HOMOGENEOUS; NON-FRIABLE; LT.GRAY; CEMENT; CEMENTITIOUS | 15 | 0 | 0 | 0 | 0 | 0 | 15 | BINDER |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## FACILITIES SERVICES DIVISION
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

SITE NAME: Stan Rowe H.S. CODE: 8850 PROJECT DESC: Campus Modernization 34623 COLIN #: 10366808

SAMPLED BY: Glenn Colgrott DATE SAMPLED: 2-8-16 DEPT. / CONSULTANT: CAS ENV. TEL: 714 525-5115

Fill in all information legibly and precisely. Original must be submitted with the samples. Make a copy before submitting samples. Results and a copy of the Chain of Custody (COC) with sample numbers will be submitted to FETU when analysis is completed. ***USE BLACK/BLUE INK ONLY. DO NOT USE WHITE OUT! ALL RUSH ANALYSIS AND POINT COUNT REQUESTS MUST BE APPROVED BY FETU SUPERVISORS.***

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (YES or NO) |
|---|---|---|---|---|---|---|---|
| 1603-0060 | 61 | Z0182 S | 2-Story Relocatable | B3 | SW | Cement Boards | NO |
| 1603-0061 | 62 | X20827 | 3/3 Relocatable | exterior | NE | moisture Barrier Paper | |
| 1603-0062 | 63 | ↓ | ↓ | ↓ | NW | ↓ | |
| 1603-0063 | 64 | ↓ | ↓ | ↓ | South | ↓ | |
| 1603-0064 | 65 | P0340K | Lunch Shelter | Roof | SE | Rolled roofing | |
| 1603-0065 | 66 | ↓ | ↓ | ↓ | Center | ↓ | |
| 1603-0066 | 67 | ↓ | ↓ | ↓ | West | ↓ | |
| 1603-0067 | 68 | 014 DAB | Food Service | ↓ | West | ↓ | |
| 1603-0068 | 69 | ↓ | ↓ | ↓ | North | ↓ | |
| 1603-0069 | 70 | ↓ | ↓ | ↓ | SW | ↓ | |
| 1603-0070 | 71 | ↓ | ↓ | ↓ | SE | Pitch Pocket mastic | |
| 1603-0071 | 72 | ↓ | ↓ | ↓ | North | ↓ | ↓ |

| TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | # OF SAMPLES |
|---|---|---|---|
| 2-24-16 2:45pm | Glenn Colgrott G.A. Colgrott | CAS ENV. | 12 |
| 2/24/16 4:37 P/m | Robert Estrada Robert Estrada | F.E.T.U. | 12 |
| 3/1/16 8:15 am | MOHD Suldi | PSD Lab | 12 |
| | | | |
| | | | |

Maximo Work Order Number: 26044555 Project Type: ☐ Maintenance (MA) ☐ Deferred Maintenance ☐ Bond (specify: K,R,Y,Q) ☐ Other:

*FETU USE ONLY*

FETU REVIEWED BY: Gus Nery RUSH? ☐ Yes ☑ No APPROVAL:

FETU REVIEW DATE: 2-29-16 POINT COUNT? ☐ Yes ☐ No PT. CT. RUSH? ☐ Yes ☐ No APPROVAL:

Rev. 9/3/15

Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030060-A | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. RM. B3 SW | HOMOGENEOUS; NON-FRIABLE; BLUE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030060-B | MS | 03/02/2016 | Z0182S : 2 STORY RELOC. RM. B3 SW | HOMOGENEOUS; NON-FRIABLE; LT.GRAY; CEMENT; CEMENTITIOUS | 15 | 0 | 0 | 0 | 0 | 0 | 15 | BINDER |
| 2016030061 | MS | 03/02/2016 | X2082P : 2/3 RELOC. EXTER. NE | HOMOGENEOUS; NON-FRIABLE; BLACK; BARRIER PAPER; TAR-LIKE, PAPER | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 60% CELLULOSE TAR |
| 2016030062 | MS | 03/02/2016 | X2082P : 2/3 RELOC. EXTER. NW | HOMOGENEOUS; NON-FRIABLE; BLACK; BARRIER PAPER; TAR-LIKE, PAPER | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 60% CELLULOSE TAR |
| 2016030063 | MS | 03/02/2016 | X2082P : 2/3 RELOC. EXTER. SOUTH | HOMOGENEOUS; NON-FRIABLE; BLACK; BARRIER PAPER; TAR-LIKE, PAPER | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 60% CELLULOSE TAR |
| 2016030064-A | MS | 03/02/2016 | P0340K : LUNCH SHELTER ROOF SE | HOMOGENEOUS; NON-FRIABLE; BLACK; ROLL ROOF; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25% FIBERGLASS ROCK, TAR |
| 2016030064-B | MS | 03/02/2016 | P0340K : LUNCH SHELTER ROOF SE | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030064-C | MS | 03/02/2016 | P0340K : LUNCH SHELTER ROOF SE | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030064-D | MS | 03/02/2016 | P0340K : LUNCH SHELTER ROOF SE | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |

Lab Supervisor Signature and Date: 3/3/16

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030064-E | MS | 03/02/2016 | P0340K : LUNCH SHELTER ROOF SE | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030064-F | MS | 03/02/2016 | P0340K : LUNCH SHELTER ROOF SE | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030065-A | MS | 03/02/2016 | P0340K : LUNCH SHELTER ROOF CENTER | HOMOGENEOUS; NON-FRIABLE; BLACK; ROLL ROOF; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25% FIBERGLASS ROCK, TAR |
| 2016030065-B | MS | 03/02/2016 | P0340K : LUNCH SHELTER ROOF CENTER | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030065-C | MS | 03/02/2016 | P0340K : LUNCH SHELTER ROOF CENTER | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030065-D | MS | 03/02/2016 | P0340K : LUNCH SHELTER ROOF CENTER | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030065-E | MS | 03/02/2016 | P0340K : LUNCH SHELTER ROOF CENTER | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030065-F | MS | 03/02/2016 | P0340K : LUNCH SHELTER ROOF CENTER | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030066-A | MS | 03/02/2016 | P0340K : LUNCH SHELTER ROOF WEST | HOMOGENEOUS; NON-FRIABLE; BLACK; ROLL ROOF; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25% FIBERGLASS ROCK, TAR |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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Facilities Services Division Laboratory
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**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030066-B | MS | 03/02/2016 | P0340K : LUNCH SHELTER ROOF WEST | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030066-C | MS | 03/02/2016 | P0340K : LUNCH SHELTER ROOF WEST | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030066-D | MS | 03/02/2016 | P0340K : LUNCH SHELTER ROOF WEST | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030066-E | MS | 03/02/2016 | P0340K : LUNCH SHELTER ROOF WEST | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030066-F | MS | 03/02/2016 | P0340K : LUNCH SHELTER ROOF WEST | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030067-A | MS | 03/02/2016 | 014DAP : FOOD SERVICE ROOF WEST | HOMOGENEOUS; NON-FRIABLE; BLACK; ROLL ROOF; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25% FIBERGLASS ROCK, TAR |
| 2016030067-B | MS | 03/02/2016 | 014DAP : FOOD SERVICE ROOF WEST | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030067-C | MS | 03/02/2016 | 014DAP : FOOD SERVICE ROOF WEST | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030067-D | MS | 03/02/2016 | 014DAP : FOOD SERVICE ROOF WEST | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030067-E | MS | 03/02/2016 | 014DAP : FOOD SERVICE ROOF WEST | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030067-F | MS | 03/02/2016 | 014DAP : FOOD SERVICE ROOF WEST | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030068-A | MS | 03/02/2016 | 014DAP : FOOD SERVICE ROOF NORTH | HOMOGENEOUS; NON-FRIABLE; BLACK; ROLL ROOF; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25% FIBERGLASS ROCK, TAR |
| 2016030068-B | MS | 03/02/2016 | 014DAP : FOOD SERVICE ROOF NORTH | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030068-C | MS | 03/02/2016 | 014DAP : FOOD SERVICE ROOF NORTH | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030068-D | MS | 03/02/2016 | 014DAP : FOOD SERVICE ROOF NORTH | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030068-E | MS | 03/02/2016 | 014DAP : FOOD SERVICE ROOF NORTH | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030068-F | MS | 03/02/2016 | 014DAP : FOOD SERVICE ROOF NORTH | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030069-A | MS | 03/02/2016 | 014DAP : FOOD SERVICE ROOF SW | HOMOGENEOUS; NON-FRIABLE; BLACK; ROLL ROOF; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25% FIBERGLASS ROCK, TAR |

Lab Supervisor Signature and Date: 3/3/16

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
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Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030069-B | MS | 03/02/2016 | 014DAP : FOOD SERVICE ROOF SW | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030069-C | MS | 03/02/2016 | 014DAP : FOOD SERVICE ROOF SW | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030069-D | MS | 03/02/2016 | 014DAP : FOOD SERVICE ROOF SW | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030069-E | MS | 03/02/2016 | 014DAP : FOOD SERVICE ROOF SW | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030069-F | MS | 03/02/2016 | 014DAP : FOOD SERVICE ROOF SW | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030070-A | MS | 03/02/2016 | 014DAP : FOOD SERVICE ROOF SE | HOMOGENEOUS; NON-FRIABLE; SILVER; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030070-B | MS | 03/02/2016 | 014DAP : FOOD SERVICE ROOF SE | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE TAR |
| 2016030071-A | MS | 03/02/2016 | 014DAP : FOOD SERVICE ROOF NORTH | HOMOGENEOUS; NON-FRIABLE; SILVER; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030071-B | MS | 03/02/2016 | 014DAP : FOOD SERVICE ROOF NORTH | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE TAR |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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Los Angeles Unified School District
Facilities Services Division
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 745-1138

# Asbestos Point Count Analysis Laboratory Report

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116 (1000 Point Count)
Date Sampled: 2/8/2016
Date Received: 3/1/2016
Date Requested: 3/7/2016



| LAUSD Lab# | MIC | Date Analyzed | Material Description | Percentage Reduction | | | Detection Limit | Counts | | Analytical Results |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ashed | Acidification | Total | | Asbestos | Total | |
| 2016030061 | MS | 3/8/2016 | Barrier Paper | 95.7837 | 3.1863 | 98.9700 | 0.001 | 15 | 1000 | <0.1 % |
| 2016030062 | MS | 3/8/2016 | Barrier Paper | 94.8099 | 3.4911 | 98.3010 | 0.002 | 4 | 1000 | <0.1 % |
| 2016030063 | MS | 3/8/2016 | Barrier Paper | 96.2156 | 2.9296 | 99.1452 | 0.001 | 9 | 1000 | <0.1 % |

Lab Supervisor Signature and Date: 3/9/2016

Signature of Analyst:

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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## FACILITIES SERVICES DIVISION
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT DESC: Campus Modernization 344624 COLIN #: 16366808

SAMPLED BY: Glenn Colquitt DATE SAMPLED: 2-8-16 DEPT. / CONSULTANT: CNS ENV. TEL: 714-525-5415

Fill in all information legibly and precisely. Original must be submitted with the samples. Make a copy before submitting samples. Results and a copy of the Chain of Custody (COC) with sample numbers will be submitted to FETU when analysis is completed. ***USE BLACK/BLUE INK ONLY. DO NOT USE WHITE OUT! ALL RUSH ANALYSIS AND POINT COUNT REQUESTS MUST BE APPROVED BY FETU SUPERVISORS.***

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (YES or NO) |
|---|---|---|---|---|---|---|---|
| 1603-0072 | 73 | 014 DAD | Food Services | Roof | SW | Pitch Pocket mastic | NO |
| 1603-0073 | 74 | ↓ | ↓ | ↓ | North | Penetration mastic | ↓ |
| 1603-0074 | 75 | 003 BCJ | Home Economics | Faculty Dining | SE | Gray/yellow floor sheeting w/ mastic | |
| 1603-0075 | 76 | | | ↓ | West | ↓ | |
| 1603-0076 | 77 | | | ↓ | NW | | ↓ |
| 1603-0077 | 78 | | | Crawlspace | NW | T.S.E debris/Covered | Yes |
| 1603-0078 | 79 | | | Faculty Dining | East | 4" Brown Cove Base w/ Adhesive | NO |
| 1603-0079 | 80 | | | ↓ | SE | ↓ | ↓ |
| 1603-0080 | 81 | | | ↓ | West | | |
| 1603-0081 | 82 | | | 1st Floor Storage Area West Stairs | West | 9x9 Brown Floor Tile w/ Mastic | |
| 1603-0082 | 83 | | | ↓ | Center | ↓ | |
| 1603-0083 | 84 | ↓ | ↓ | ↓ | North | | ↓ |

| TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | # OF SAMPLES |
|---|---|---|---|
| 2-24-16 2:45 pm | Glenn Colquitt GA Colquitt | CNS ENV. | 12 |
| 2/24/16 4:38 pm | Robert Estrada Robert Estrada | F.E.T.J. | 12 |
| 3/1/16 8:15 am | Mohd Surdi | PSD Lab | 12 |
| | | | |
| | | | |
| | | | |

Maximo Work Order Number: 26044559 Project Type: ☐ Maintenance (MA) ☐ Deferred Maintenance ☐ Bond (specify: K,R,Y,Q) ☐ Other:

***FETU USE ONLY***

FETU REVIEWED BY: Gus Neri RUSH? ☐ Yes ☒ No APPROVAL:

FETU REVIEW DATE: 2-29-16 POINT COUNT? ☐ Yes ☐ No PT. CT. RUSH? ☐ Yes ☐ No APPROVAL:

Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
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**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030072-A | MS | 03/02/2016 | 014DAP : FOOD SERVICE<br>ROOF<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>SILVER;<br>PAINT;<br>PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030072-B | MS | 03/02/2016 | 014DAP : FOOD SERVICE<br>ROOF<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE<br>TAR |
| 2016030073-A | MS | 03/02/2016 | 014DAP : FOOD SERVICE<br>ROOF<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>SILVER;<br>PAINT;<br>PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030073-B | MS | 03/02/2016 | 014DAP : FOOD SERVICE<br>ROOF<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE<br>TAR |
| 2016030074-A | MS | 03/02/2016 | 003BCJ : HOME ECON.<br>FAC. DINING<br>SE | HOMOGENEOUS;<br>NON-FRIABLE;<br>LT.GREEN;<br>FLOOR SHEETING;<br>VINYL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030074-B | MS | 03/02/2016 | 003BCJ : HOME ECON.<br>FAC. DINING<br>SE | HOMOGENEOUS;<br>NON-FRIABLE;<br>OFF WHITE;<br>BACKING MATERIAL;<br>FIBROUS/ ADHESIVE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70% FIBERGLASS<br>BINDER |
| 2016030074-C | MS | 03/02/2016 | 003BCJ : HOME ECON.<br>FAC. DINING<br>SE | HOMOGENEOUS;<br>NON-FRIABLE;<br>OFF WHITE;<br>PAD;<br>SPONGY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030074-D | MS | 03/02/2016 | 003BCJ : HOME ECON.<br>FAC. DINING<br>SE | HOMOGENEOUS;<br>NON-FRIABLE;<br>YELLOW;<br>ADHESIVE;<br>SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030075-A | MS | 03/02/2016 | 003BCJ : HOME ECON.<br>FAC. DINING<br>WEST | HOMOGENEOUS;<br>NON-FRIABLE;<br>LT.GREEN;<br>FLOOR SHEETING;<br>VINYL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
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**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030075-B | MS | 03/02/2016 | 003BCJ : HOME ECON. FAC. DINING WEST | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; BACKING MATERIAL; FIBROUS/ ADHESIVE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70% FIBERGLASS BINDER |
| 2016030075-C | MS | 03/02/2016 | 003BCJ : HOME ECON. FAC. DINING WEST | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; PAD; SPONGY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030075-D | MS | 03/02/2016 | 003BCJ : HOME ECON. FAC. DINING WEST | HOMOGENEOUS; NON-FRIABLE; YELLOW; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030076-A | MS | 03/02/2016 | 003BCJ : HOME ECON. FAC. DINING NW | HOMOGENEOUS; NON-FRIABLE; LT.GREEN; FLOOR SHEETING; VINYL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030076-B | MS | 03/02/2016 | 003BCJ : HOME ECON. FAC. DINING NW | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; BACKING MATERIAL; FIBROUS/ ADHESIVE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70% FIBERGLASS BINDER |
| 2016030076-C | MS | 03/02/2016 | 003BCJ : HOME ECON. FAC. DINING NW | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; PAD; SPONGY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030076-D | MS | 03/02/2016 | 003BCJ : HOME ECON. FAC. DINING NW | HOMOGENEOUS; NON-FRIABLE; YELLOW; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030077-A | MS | 03/02/2016 | 003BCJ : HOME ECON. CRAWL SPACE NW | HOMOGENEOUS; FRIABLE; OFF WHITE; CANVAS; WOVEN FABRIC | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95% CELLULOSE BINDER |
| 2016030077-B | MS | 03/02/2016 | 003BCJ : HOME ECON. CRAWL SPACE NW | HOMOGENEOUS; FRIABLE; OFF WHITE; T.S.I; POWDERY/ FIBROUS | 12 | 0 | 0 | 0 | 0 | 0 | 12 | CARBONATES |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030078-A | MS | 03/02/2016 | 003BCJ : HOME ECON. FAC. DINING EAST | HOMOGENEOUS; NON-FRIABLE; LITE BROWN; COATING; COATED MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030078-B | MS | 03/02/2016 | 003BCJ : HOME ECON. FAC. DINING EAST | HOMOGENEOUS; NON-FRIABLE; LT.GREEN; COVE BASE; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030078-C | MS | 03/02/2016 | 003BCJ : HOME ECON. FAC. DINING EAST | HOMOGENEOUS; NON-FRIABLE; YELLOW; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030079-A | MS | 03/02/2016 | 003BCJ : HOME ECON. FAC. DINING SE | HOMOGENEOUS; NON-FRIABLE; CLEAR; COATING; COATED MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030079-B | MS | 03/02/2016 | 003BCJ : HOME ECON. FAC. DINING SE | HOMOGENEOUS; NON-FRIABLE; BROWN; COVE BASE; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030079-C | MS | 03/02/2016 | 003BCJ : HOME ECON. FAC. DINING SE | HOMOGENEOUS; NON-FRIABLE; YELLOW; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030080-A | MS | 03/02/2016 | 003BCJ : HOME ECON. FAC. DINING WEST | HOMOGENEOUS; NON-FRIABLE; CLEAR; COATING; COATED MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030080-B | MS | 03/02/2016 | 003BCJ : HOME ECON. FAC. DINING WEST | HOMOGENEOUS; NON-FRIABLE; BROWN; COVE BASE; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030080-C | MS | 03/02/2016 | 003BCJ : HOME ECON. FAC. DINING WEST | HOMOGENEOUS; NON-FRIABLE; YELLOW; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |

Lab Supervisor Signature and Date: 3/3/16

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030081-A | MS | 03/02/2016 | 003BCJ : HOME ECON. 1ST FLR. STORAGE AREA WEST STAIRS WEST | HOMOGENEOUS; NON-FRIABLE; BROWN; FLOOR TILE; VINYL | 4 | 0 | 0 | 0 | 0 | 0 | 4 | BINDER |
| 2016030081-B | MS | 03/02/2016 | 003BCJ : HOME ECON. 1ST FLR. STORAGE AREA WEST STAIRS WEST | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; RESIN-LIKE | 7 | 0 | 0 | 0 | 0 | 0 | 7 | TAR |
| 2016030082-A | MS | 03/02/2016 | 003BCJ : HOME ECON. 1ST FLR. STORAGE AREA WEST STAIRS CENTER | HOMOGENEOUS; NON-FRIABLE; BROWN; FLOOR TILE; VINYL | 4 | 0 | 0 | 0 | 0 | 0 | 4 | BINDER |
| 2016030082-B | MS | 03/02/2016 | 003BCJ : HOME ECON. 1ST FLR. STORAGE AREA WEST STAIRS CENTER | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; RESIN-LIKE | 7 | 0 | 0 | 0 | 0 | 0 | 7 | TAR |
| 2016030083-A | MS | 03/02/2016 | 003BCJ : HOME ECON. 1ST FLR. STORAGE AREA WEST STAIRS NORTH | HOMOGENEOUS; NON-FRIABLE; BROWN; FLOOR TILE; VINYL | 4 | 0 | 0 | 0 | 0 | 0 | 4 | BINDER |
| 2016030083-B | MS | 03/02/2016 | 003BCJ : HOME ECON. 1ST FLR. STORAGE AREA WEST STAIRS NORTH | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; RESIN-LIKE | 7 | 0 | 0 | 0 | 0 | 0 | 7 | TAR |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## FACILITIES SERVICES DIVISION
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT DESC: Campus Modernization 34625
SAMPLED BY: Glenn Colgrath DATE SAMPLED: 2-8-16 DEPT. / CONSULTANT: CAS ENV. COLIN #: 10366808
TEL: 213-575-5115

Fill in all information legibly and precisely. Original must be submitted with the samples. Make a copy before submitting samples. Results and a copy of the Chain of Custody (COC) with sample numbers will be submitted to FETU when analysis is completed. ***USE BLACK/BLUE INK ONLY. DO NOT USE WHITE OUT! ALL RUSH ANALYSIS AND POINT COUNT REQUESTS MUST BE APPROVED BY FETU SUPERVISORS.***

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (YES or NO) |
|---|---|---|---|---|---|---|---|
| 1603-0084 | 85 | 003 BCJ | Home Economics | Balcony North side | NW | Black Penetration Mastic | NO |
| 1603-0085 | 86 | ↓ | ↓ | ↓ | Center | ↓ | ↓ |
| 1603-0086 | 87 | | | Balcony South side | SE | ↓ | |
| 1603-0087 | 88 | | | Balcony W-side | SW | Exterior window putty | |
| 1603-0088 | 89 | | | ↓ | SE | ↓ | |
| 1603-0089 | 90 | | | Balcony E-side | North | ↓ | |
| 1603-0090 | 91 | | | Roof | Center | Pitch Pocket mastic | |
| 1603-0091 | 92 | | | | NW | ↓ | |
| 1603-0092 | 93 | ↓ | ↓ | | East | ↓ | |
| 1603-0093 | 94 | 001 CBJ | Industrial Arts | | C- west | Vibration Reducer | |
| 1603-0094 | 95 | 015 DCS | Shop Bldg | | South | Parapet | |
| 1603-0095 | 96 | ↓ | ↓ | ↓ | East | ↓ | ↓ |

| DATE | TIME | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | # OF SAMPLES |
|---|---|---|---|---|
| 2-24-16 | 2:45pm | Glenn Colgrath G.A. Colgrath | CAS ENV | 12 |
| 2/24/16 | 4:39 p/m | Robert Estrada Robert Estrada | F.E.T.J. | 12 |
| 3/1/16 | 8.15am | Mohd Suldi | FSD Lab | 12 |
| | | | | |
| | | | | |

Maximo Work Order Number: 260441559 Project Type: ☐ Maintenance (MA) ☐ Deferred Maintenance ☐ Bond (specify: K,R,Y,Q) ☐ Other:

*FETU USE ONLY*
FETU REVIEWED BY: G. Nera
FETU REVIEW DATE: 2-29-16
RUSH? ☐ Yes ☒ No APPROVAL:
POINT COUNT? ☐ Yes ☐ No PT. CT. RUSH? ☐ Yes ☐ No APPROVAL:

Rev. 9/9/15

Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030084-A | LN | 03/01/2016 | 003BCJ : HOME ECON. BALCONY/NO. SIDE NW | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE TAR |
| 2016030084-B | LN | 03/01/2016 | 003BCJ : HOME ECON. BALCONY/NO. SIDE NW | NON-HOMOGENEOUS; NON-FRIABLE; SILVER; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030085-A | LN | 03/01/2016 | 003BCJ : HOME ECON. BALCONY/NO. SIDE CENTER | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE TAR |
| 2016030085-B | LN | 03/01/2016 | 003BCJ : HOME ECON. BALCONY/NO. SIDE CENTER | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ WHITE; ROOFING; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% FIBERGLASS, 30% SYNTHETIC ROCK, TAR |
| 2016030086-A | LN | 03/01/2016 | 003BCJ : HOME ECON. BALCONY/SO. SIDE SE | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE TAR |
| 2016030086-B | LN | 03/01/2016 | 003BCJ : HOME ECON. BALCONY/SO. SIDE SE | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ WHITE; ROOFING; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% FIBERGLASS, 30% SYNTHETIC ROCK, TAR |
| 2016030087-A | LN | 03/01/2016 | 003BCJ : HOME ECON. BALCONY/NO. SIDE SW | NON-HOMOGENEOUS; NON-FRIABLE; WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030087-B | LN | 03/01/2016 | 003BCJ : HOME ECON. BALCONY/NO. SIDE SW | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; PUTTY; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030088-A | LN | 03/01/2016 | 003BCJ : HOME ECON. BALCONY/NO. SIDE SE | NON-HOMOGENEOUS, NON-FRIABLE; WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |

**COMMENT(S): DIFFERENT FROM 1603/0087 AND 0089**

Lab Supervisor Signature and Date: 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030088-B | LN | 03/01/2016 | 003BCJ : HOME ECON. BALCONY/NO. SIDE SE | HOMOGENEOUS; NON-FRIABLE; BLUE; PUTTY; GRANULAR | 3 | 0 | 0 | 0 | 0 | 0 | 3 | BINDER |
| 2016030088-C | LN | 03/01/2016 | 003BCJ : HOME ECON. BALCONY/NO. SIDE SE | HOMOGENEOUS; NON-FRIABLE; WHITE; PUTTY; GRANULAR | 2 | 0 | 0 | 0 | 0 | 0 | 2 | BINDER |
| 2016030089-A | LN | 03/01/2016 | 003BCJ : HOME ECON. BALCONY/SO. SIDE NORTH | NON-HOMOGENEOUS; NON-FRIABLE; WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030089-B | LN | 03/01/2016 | 003BCJ : HOME ECON. BALCONY/SO. SIDE NORTH | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; PUTTY; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030090-A | LN | 03/01/2016 | 003BCJ : HOME ECON. ROOF CENTER | HOMOGENEOUS; NON-FRIABLE; BLACK; PITCH POCKET; TAR | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2% FIBERGLASS BINDER |
| 2016030090-B | LN | 03/01/2016 | 003BCJ : HOME ECON. ROOF CENTER | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ WHITE; TAR; TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT, TAR |
| 2016030091-A | LN | 03/01/2016 | 003BCJ : HOME ECON. ROOF NW | HOMOGENEOUS; NON-FRIABLE; BLACK; PITCH POCKET; TAR | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2% FIBERGLASS BINDER |
| 2016030091-B | LN | 03/01/2016 | 003BCJ : HOME ECON. ROOF NW | HOMOGENEOUS; NON-FRIABLE; BLACK; TAR; TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | TAR |
| 2016030092-A | LN | 03/01/2016 | 003BCJ : HOME ECON. ROOF EAST | HOMOGENEOUS; NON-FRIABLE; BLACK; PITCH POCKET; TAR | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2% FIBERGLASS BINDER |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030092-B | LN | 03/01/2016 | 003BCJ : HOME ECON.<br>ROOF<br>EAST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK/ WHITE;<br>TAR;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT, TAR |
| 2016030093 | LN | 03/01/2016 | 001BCJ : INDUST. ARTS<br>ROOF<br>CTR/WEST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BROWN/ WHITE;<br>VIBRATION REDUCERS;<br>COATED/ CLOTH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60% FIBERGLASS<br>BINDER, PAINT |
| 2016030094-A | LN | 03/01/2016 | 015DCS : SHOP BLDG.<br>ROOF<br>SOUTH | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK/ WHITE;<br>ROOF MATERIAL;<br>FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20% FIBERGLASS<br>ROCK, TAR |
| 2016030094-B | LN | 03/01/2016 | 015DCS : SHOP BLDG.<br>ROOF<br>SOUTH | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK/ WHITE;<br>ROOF MATERIAL;<br>FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20% FIBERGLASS<br>ROCK, TAR |
| 2016030094-C | LN | 03/01/2016 | 015DCS : SHOP BLDG.<br>ROOF<br>SOUTH | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>FELT;<br>FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS<br>TAR |
| 2016030094-D | LN | 03/01/2016 | 015DCS : SHOP BLDG.<br>ROOF<br>SOUTH | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>FELT;<br>FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS<br>TAR |
| 2016030094-E | LN | 03/01/2016 | 015DCS : SHOP BLDG.<br>ROOF<br>SOUTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>TAN;<br>SUBSTRATE;<br>FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% CELLULOSE |
| 2016030095-A | LN | 03/01/2016 | 015DCS : SHOP BLDG.<br>ROOF<br>EAST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK/ WHITE;<br>ROOF MATERIAL;<br>FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20% FIBERGLASS<br>ROCK, TAR |
| 2016030095-B | LN | 03/01/2016 | 015DCS : SHOP BLDG.<br>ROOF<br>EAST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK/ WHITE;<br>ROOF MATERIAL;<br>FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20% FIBERGLASS<br>ROCK, TAR |

Lab Supervisor Signature and Date: 3/3/16

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030095-C | LN | 03/01/2016 | 015DCS : SHOP BLDG.<br>ROOF<br>EAST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>FELT;<br>FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS<br>TAR |
| 2016030095-D | LN | 03/01/2016 | 015DCS : SHOP BLDG.<br>ROOF<br>EAST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>FELT;<br>FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS<br>TAR |
| 2016030095-E | LN | 03/01/2016 | 015DCS : SHOP BLDG.<br>ROOF<br>EAST | HOMOGENEOUS;<br>NON-FRIABLE;<br>TAN;<br>SUBSTRATE;<br>FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% CELLULOSE |

Lab Supervisor Signature and Date: 3/3/16

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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Los Angeles Unified School District
Facilities Services Division
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 745-1138

# Asbestos Point Count Analysis Laboratory Report

## SAN PEDRO HS
## 8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116 (1000 Point Count)
Date Sampled: 2/8/2016
Date Received: 3/1/2016
Date Requested: 3/7/2016



| LAUSD Lab# | MIC | Date Analyzed | Material Description | Percentage Reduction | | | Detection Limit | Counts | | Analytical Results |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ashed | Acidification | Total | | Asbestos | Total | |
| 2016030090A | LN | 3/8/2016 | Pitch Pocket Mastic | 73.7647 | 7.9216 | 81.6863 | 0.02 | 36 | 1000 | 0.66% Chrysotile |
| 2016030091A | LN | 3/8/2016 | Pitch Pocket Mastic | 73.4284 | 8.0497 | 81.4781 | 0.02 | 39 | 1000 | 0.72% Chrysotile |
| 2016030092A | LN | 3/8/2016 | Pitch Pocket Mastic | 72.5637 | 8.2847 | 80.8484 | 0.02 | 32 | 1000 | 0.61% Chrysotile |

Lab Supervisor Signature and Date: 3/9/2016

Signature of Analyst: L Nobles

This report relates to only the material tested. This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government.
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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## FACILITIES SERVICES DIVISION
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

SITE NAME: San Pedro H.S. CODE: 8856 PROJECT DESC: Campus Modernization 346216 COLIN #: 10366808

SAMPLED BY: Glenn Colquett DATE SAMPLED: 2-3-16 DEPT. / CONSULTANT: CAS ENV. TEL: 714-525-5115

Fill in all information legibly and precisely. Original must be submitted with the samples. Make a copy before submitting samples. Results and a copy of the Chain of Custody (COC) with sample numbers will be submitted to FETU when analysis is completed. ***USE BLACK/BLUE INK ONLY. DO NOT USE WHITE OUT! ALL RUSH ANALYSIS AND POINT COUNT REQUESTS MUST BE APPROVED BY FETU SUPERVISORS.***

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (YES or NO) |
|---|---|---|---|---|---|---|---|
| 1603-0096 | 97 | 015DCS | Shop BLD | ROOF | NORTH | Parapet | NO |
| 1603-0097 | 98 | ↓ | ↓ | ↓ | Center | Pitch Pocket MASTIC | ↓ |
| 1603-0098 | 99 | | | | West | ↓ | |
| 1603-0099 | 100 | | | | South | ↓ | |
| 1603-0100 | 101 | | | | NEAST | Penetration MASTIC | |
| 1603-0101 | 102 | | | | South | ↓ | |
| 1603-0102 | 103 | | | | N-W | ↓ | |
| 1603-0103 | 104 | | | | Center | OLD UNIT HVAC sealant | |
| 1603-0104 | 105 | | | | S-EAST | ↓ | |
| 1603-0105 | 106 | ↓ | ↓ | ↓ | N E | ↓ | ↓ |
| 1603-0106 | 107 | 002BAS inc. | Auditorium BLD | BAND ROOM Basement | SW | 12x12 c/Tile straight hole w/Adhesive | Yes |
| 1603-0107 | 108 | ↓ | ↓ | ↓ | South | | ↓ |

| DATE | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | # OF SAMPLES |
|---|---|---|---|---|
| 2-24-16 | 2:45pm | Glenn Colquett GA Colquett | CAS ENV. | 12 |
| 2/24/16 | 4:39 P/m | Robert Estrada Robert Estrada | F.E.T.J. | 12 |
| 3/1/16 | 8:15 am | NOAH Sulai | PID Lab | 12 |
| | | | | |
| | | | | |

Maximo Work Order Number: 26044555 Project Type: ☐ Maintenance (MA) ☐ Deferred Maintenance ☐ Bond (specify: K,R,Y,Q) ☐ Other:

***FETU USE ONLY***

FETU REVIEWED BY: G. NERI RUSH? ☐ Yes ☒ No APPROVAL:

FETU REVIEW DATE: 2-29-16 POINT COUNT? ☐ Yes ☐ No PT. CT. RUSH? ☐ Yes ☐ No APPROVAL:

Rev. 9/3/15

Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030096-A | LN | 03/02/2016 | 015DCS : SHOP BLDG. ROOF NORTH | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ WHITE; ROOF MATERIAL; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20% FIBERGLASS ROCK, TAR |
| 2016030096-B | LN | 03/02/2016 | 015DCS : SHOP BLDG. ROOF NORTH | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ WHITE; ROOF MATERIAL; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20% FIBERGLASS ROCK, TAR |
| 2016030096-C | LN | 03/02/2016 | 015DCS : SHOP BLDG. ROOF NORTH | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030096-D | LN | 03/02/2016 | 015DCS : SHOP BLDG. ROOF NORTH | NON-HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% FIBERGLASS TAR |
| 2016030096-E | LN | 03/02/2016 | 015DCS : SHOP BLDG. ROOF NORTH | HOMOGENEOUS; NON-FRIABLE; TAN; SUBSTRATE; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% CELLULOSE |
| 2016030097-A | LN | 03/02/2016 | 015DCS : SHOP BLDG. ROOF CENTER | HOMOGENEOUS; NON-FRIABLE; BLACK; PITCH POCKET; TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE TAR |
| 2016030097-B | LN | 03/02/2016 | 015DCS : SHOP BLDG. ROOF CENTER | HOMOGENEOUS; NON-FRIABLE; WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030097-C | LN | 03/02/2016 | 015DCS : SHOP BLDG. ROOF CENTER | HOMOGENEOUS; NON-FRIABLE; BLACK; PITCH POCKET; TAR | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 10% CELLULOSE, 2% FIBERGLASS TAR |
| 2016030098-A | LN | 03/02/2016 | 015DCS : SHOP BLDG. ROOF WEST | HOMOGENEOUS; NON-FRIABLE; BLACK; PITCH POCKET; TAR | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 10% CELLULOSE, 2% FIBERGLASS TAR |

**COMMENT(S): VERY SMALL AMOUNT OF SAMPLE**

Lab Supervisor Signature and Date: 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030098-B | LN | 03/02/2016 | 015DCS : SHOP BLDG.<br>ROOF<br>WEST | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK/ WHITE;<br>ROOFING;<br>FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% FIBERGLASS<br>TAR |
| 2016030099 | LN | 03/02/2016 | 015DCS : SHOP BLDG.<br>ROOF<br>SOUTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>PITCH POCKET;<br>TAR | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 5% CELLULOSE, 5%<br>WOLLASTONITE<br>TAR |
| 2016030100-A | LN | 03/02/2016 | 015DCS : SHOP BLDG.<br>ROOF<br>NE | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>PITCH POCKET;<br>TAR | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 10% CELLULOSE, 2%<br>FIBERGLASS<br>TAR |
| 2016030100-B | LN | 03/02/2016 | 015DCS : SHOP BLDG.<br>ROOF<br>NE | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK/ WHITE;<br>ROOFING;<br>FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% FIBERGLASS<br>TAR |
| 2016030101-A | LN | 03/02/2016 | 015DCS : SHOP BLDG.<br>ROOF<br>SOUTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>PITCH POCKET;<br>TAR | <1 | 0 | 0 | 0 | 0 | 0 | <1 | 10% CELLULOSE, 5%<br>WOLLASTONITE<br>TAR |
| 2016030101-B | LN | 03/02/2016 | 015DCS : SHOP BLDG.<br>ROOF<br>SOUTH | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK/ WHITE;<br>ROOFING;<br>FELT/ TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% FIBERGLASS<br>TAR |
| 2016030102-A | LN | 03/02/2016 | 015DCS : SHOP BLDG.<br>ROOF<br>NW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 10% CELLULOSE, 2%<br>FIBERGLASS<br>TAR |
| 2016030102-B | LN | 03/02/2016 | 015DCS : SHOP BLDG.<br>ROOF<br>NW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>TAR;<br>TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | TAR |
| 2016030103-A | LN | 03/02/2016 | 015DCS : SHOP BLDG.<br>ROOF<br>CENTER | NON-HOMOGENEOUS;<br>NON-FRIABLE;<br>BROWN;<br>PAINT;<br>PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030103-B | LN | 03/02/2016 | 015DCS : SHOP BLDG. ROOF CENTER | HOMOGENEOUS; NON-FRIABLE; GRAY; SEALANT; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% SYNTHETIC BINDER |
| 2016030104-A | LN | 03/02/2016 | 015DCS : SHOP BLDG. ROOF SE | NON-HOMOGENEOUS; NON-FRIABLE; BROWN; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030104-B | LN | 03/02/2016 | 015DCS : SHOP BLDG. ROOF SE | HOMOGENEOUS; NON-FRIABLE; GRAY; SEALANT; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% SYNTHETIC BINDER |
| 2016030104-C | LN | 03/02/2016 | 015DCS : SHOP BLDG. ROOF SE | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE TAR |
| 2016030105-A | LN | 03/02/2016 | 015DCS : SHOP BLDG. ROOF NE | NON-HOMOGENEOUS; NON-FRIABLE; BROWN; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030105-B | LN | 03/02/2016 | 015DCS : SHOP BLDG. ROOF NE | HOMOGENEOUS; NON-FRIABLE; GRAY; SEALANT; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2% SYNTHETIC BINDER |
| 2016030106-A | LN | 03/02/2016 | 002BAJ : AUDIT. BLDG. BAND RM/BASEMENT SW | HOMOGENEOUS; FRIABLE; WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030106-B | LN | 03/02/2016 | 002BAJ : AUDIT. BLDG. BAND RM/BASEMENT SW | HOMOGENEOUS; FRIABLE; OFF WHITE; CEILING TILE; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60% CELLULOSE BINDER, PERLITE |
| 2016030106-C | LN | 03/02/2016 | 002BAJ : AUDIT. BLDG. BAND RM/BASEMENT SW | HOMOGENEOUS; FRIABLE; LITE BROWN; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |

Lab Supervisor Signature and Date: 3/3/16

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030107-A | LN | 03/02/2016 | 002BAJ : AUDIT. BLDG. BAND RM/BASEMENT SOUTH | HOMOGENEOUS; FRIABLE; WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030107-B | LN | 03/02/2016 | 002BAJ : AUDIT. BLDG. BAND RM/BASEMENT SOUTH | HOMOGENEOUS; FRIABLE; TAN; CEILING TILE; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% CELLULOSE |
| 2016030107-C | LN | 03/02/2016 | 002BAJ : AUDIT. BLDG. BAND RM/BASEMENT SOUTH | HOMOGENEOUS; FRIABLE; BROWN; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% WOLLASTONITE ADHESIVE |

Lab Supervisor Signature and Date: 3/3/16

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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Facilities Services Division
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 745-1138

# Asbestos Point Count Analysis Laboratory Report

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116 (1000 Point Count)
Date Sampled: 2/8/2016
Date Received: 3/1/2016
Date Requested: 3/7/2016



| LAUSD Lab# | MIC | Date Analyzed | Material Description | Percentage Reduction | | | Detection Limit | Counts | | Analytical Results |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ashed | Acidification | Total | | Asbestos | Total | |
| 2016030097C | LN | 3/8/2016 | Pitch Pocket Mastic | 72.5100 | 8.0256 | 80.5356 | 0.02 | 40 | 1000 | 0.78% Chrysotile |
| 2016030098A | LN | 3/8/2016 | Pitch Pocket Mastic | 72.6732 | 8.0633 | 80.7365 | 0.02 | 44 | 1000 | 0.85% Chrysotile |
| 2016030099 | LN | 3/9/2016 | Pitch Pocket Mastic | 61.7057 | 6.1487 | 67.8544 | 0.03 | 1 | 1000 | <0.1 % |
| 2016030100A | MS | 3/9/2016 | Penetration Mastic | 71.5513 | 7.6502 | 79.2015 | 0.02 | 18 | 1000 | 0.37% Chrysotile |
| 2016030101A | MS | 3/9/2016 | Penetration Mastic | 64.1630 | 5.5439 | 69.7069 | 0.03 | 6 | 1000 | 0.18% Chrysotile |
| 2016030102A | MS | 3/9/2016 | Penetration Mastic | 72.9295 | 7.8741 | 80.8036 | 0.02 | 22 | 1000 | 0.42% Chrysotile |

Lab Supervisor Signature and Date: 3/9/2016

Signature of Analyst: J Noble

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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## FACILITIES SERVICES DIVISION
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT DESC: Campus Modernization 34627 COLIN #: 10366808

SAMPLED BY: Glenn Colgrett DATE SAMPLED: 2-8-16 DEPT. / CONSULTANT: CNS ENV. TEL: 714-525-5215

Fill in all information legibly and precisely. Original must be submitted with the samples. Make a copy before submitting samples. Results and a copy of the Chain of Custody (COC) with sample numbers will be submitted to FETU when analysis is completed. ***USE BLACK/BLUE INK ONLY. DO NOT USE WHITE OUT! ALL RUSH ANALYSIS AND POINT COUNT REQUESTS MUST BE APPROVED BY FETU SUPERVISORS.***

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (YES or NO) |
|---|---|---|---|---|---|---|---|
| 1603-0108 | 109 | 002 BAB | Auditorium BLD | Band Rm Basement | NE | 12X12 C.T. w/adhesive Straight hole | YES |
| 1603-0109 | 110 | 005 BCJ | Classrm BLD #1 | 127 Storage | NE | 9X9 Floor Tile Brown w/mastic | NO |
| 1603-0110 | 111 | ↓ | ↓ | ↓ | SE | ↓ | ↓ |
| 1603-0111 | 112 | ↓ | ↓ | ↓ | SW | ↓ | ↓ |
| 1603-0112 | 113 | 013 BCB | Classrm BLD #2 | 247 | SW | 9X9 Floor Tile w/mastic | ↓ |
| 1603-0113 | 114 | ↓ | ↓ | 241 | NW | ↓ | ↓ |
| 1603-0114 | 115 | ↓ | ↓ | 245A | NORTH | ↓ | ↓ |
| 1603-0115 | 116 | ↓ | Classrm BLD #2 | 2nd Floor Hopper Rm | EAST | SAND PLASTER ceiling | ↓ |
| 1603-0116 | 117 | ↓ | ↓ | ↓ | SW | ↓ | ↓ |
| 1603-0117 | 118 | ↓ | ↓ | 1st Floor Hopper | SE | ↓ | ↓ |
| 1603-0118 | 119 | ↓ | ↓ | 2nd FLOOR Pan Rm | SE | SAND PLASTER walls | ↓ |
| 1603-0119 | 120 | ↓ | ↓ | ↓ | NORTH | ↓ | ↓ |

| | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | # OF SAMPLES |
|---|---|---|---|---|
| 2-24-16 | 2:45pm | Glenn Colgrett G. A. Colgrett | CNS ENV. | 12 |
| 2/24/16 | 4:41 P/m | Robert Estrada Robert Estrada | F.E.T.J. | 12 |
| 3/1/16 | 8.15am | Mohd Sadi | FSD Lab | 12 |
| | | | | |
| | | | | |

Maximo Work Order Number: 26044559 Project Type: ☐ Maintenance (MA) ☐ Deferred Maintenance ☐ Bond (specify: K,R,Y,Q) ☐ Other:

*FETU USE ONLY*

FETU REVIEWED BY: G. NERI RUSH? ☐ Yes ☒ No APPROVAL:

FETU REVIEW DATE: 2-29-16 POINT COUNT? ☐ Yes ☐ No PT. CT. RUSH? ☐ Yes ☐ No APPROVAL:

Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030108-A | MS | 03/02/2016 | 002BAJ : AUDIT. BLDG. BAND RM/BASEMENT NE | HOMOGENEOUS; FRIABLE; OFF WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030108-B | MS | 03/02/2016 | 002BAJ : AUDIT. BLDG. BAND RM/BASEMENT NE | HOMOGENEOUS; FRIABLE; LITE BROWN; CEILING TILE; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% CELLULOSE, 10% FIBERGLASS PERLITE |
| 2016030108-C | MS | 03/02/2016 | 002BAJ : AUDIT. BLDG. BAND RM/BASEMENT NE | HOMOGENEOUS; FRIABLE; DARK BROWN; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030108-D | MS | 03/02/2016 | 002BAJ : AUDIT. BLDG. BAND RM/BASEMENT NE | HOMOGENEOUS; FRIABLE; LITE BROWN; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030109-A | MS | 03/02/2016 | 005BCJ : CLSRM. BLDG. 1 RM. 127/STORAGE NE | HOMOGENEOUS; NON-FRIABLE; DARK BROWN; FLOOR TILE; VINYL | 7 | 0 | 0 | 0 | 0 | 0 | 7 | BINDER |
| 2016030109-B | MS | 03/02/2016 | 005BCJ : CLSRM. BLDG. 1 RM. 127/STORAGE NE | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | TAR |
| 2016030110-A | MS | 03/02/2016 | 005BCJ : CLSRM. BLDG. 1 RM. 127/STORAGE SE | HOMOGENEOUS; NON-FRIABLE; DARK BROWN; FLOOR TILE; VINYL | 7 | 0 | 0 | 0 | 0 | 0 | 7 | BINDER |
| 2016030110-B | MS | 03/02/2016 | 005BCJ : CLSRM. BLDG. 1 RM. 127/STORAGE SE | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | TAR |
| 2016030111-A | MS | 03/02/2016 | 005BCJ : CLSRM. BLDG. 1 RM. 127/STORAGE SW | HOMOGENEOUS; NON-FRIABLE; DARK BROWN; FLOOR TILE; VINYL | 7 | 0 | 0 | 0 | 0 | 0 | 7 | BINDER |

Lab Supervisor Signature and Date: 3/3/16

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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Facilities Services Division Laboratory
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(213)745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030111-B | MS | 03/02/2016 | 005BCJ : CLSRM. BLDG. 1<br>RM. 127/STORAGE<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | TAR |
| 2016030112-A | MS | 03/02/2016 | 013BCP : CLSR.M BLDG. 2<br>RM. 247<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BROWN;<br>FLOOR TILE;<br>VINYL | 8 | 0 | 0 | 0 | 0 | 0 | 8 | BINDER |
| 2016030112-B | MS | 03/02/2016 | 013BCP : CLSR.M BLDG. 2<br>RM. 247<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>RESIN-LIKE | 7 | 0 | 0 | 0 | 0 | 0 | 7 | TAR |
| 2016030113-A | MS | 03/02/2016 | 013BCP : CLSR.M BLDG. 2<br>RM. 241<br>NW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BROWN;<br>FLOOR TILE;<br>VINYL | 8 | 0 | 0 | 0 | 0 | 0 | 8 | BINDER |
| 2016030113-B | MS | 03/02/2016 | 013BCP : CLSR.M BLDG. 2<br>RM. 241<br>NW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>RESIN-LIKE | 7 | 0 | 0 | 0 | 0 | 0 | 7 | TAR |
| 2016030114-A | MS | 03/02/2016 | 013BCP : CLSR.M BLDG. 2<br>RM. 245A<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BROWN;<br>FLOOR TILE;<br>VINYL | 8 | 0 | 0 | 0 | 0 | 0 | 8 | BINDER |
| 2016030114-B | MS | 03/02/2016 | 013BCP : CLSR.M BLDG. 2<br>RM. 245A<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>RESIN-LIKE | 7 | 0 | 0 | 0 | 0 | 0 | 7 | TAR |
| 2016030115-A | MS | 03/02/2016 | 013BCP : CLSR.M BLDG. 2<br>2ND FLR/HOPPER RM<br>EAST | HOMOGENEOUS;<br>NON-FRIABLE;<br>OFF WHITE;<br>PAINT;<br>PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030115-B | MS | 03/02/2016 | 013BCP : CLSR.M BLDG. 2<br>2ND FLR/HOPPER RM<br>EAST | HOMOGENEOUS;<br>NON-FRIABLE;<br>LITE BROWN;<br>SAND PLASTER;<br>GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030116-A | MS | 03/02/2016 | 013BCP : CLSR.M BLDG. 2 2ND FLR/HOPPER RM SW | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030116-B | MS | 03/02/2016 | 013BCP : CLSR.M BLDG. 2 2ND FLR/HOPPER RM SW | HOMOGENEOUS; NON-FRIABLE; LITE BROWN; SAND PLASTER; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030117-A | MS | 03/02/2016 | 013BCP : CLSR.M BLDG. 2 1ST FLR. HOPPER RM SE | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030117-B | MS | 03/02/2016 | 013BCP : CLSR.M BLDG. 2 1ST FLR. HOPPER RM SE | HOMOGENEOUS; NON-FRIABLE; LITE BROWN; SAND PLASTER; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030118-A | MS | 03/02/2016 | 013BCP : CLSR.M BLDG. 2 2ND FLR/FAN RM SE | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030118-B | MS | 03/02/2016 | 013BCP : CLSR.M BLDG. 2 2ND FLR/FAN RM SE | HOMOGENEOUS; NON-FRIABLE; LITE BROWN; SAND PLASTER; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030119 | MS | 03/02/2016 | 013BCP : CLSR.M BLDG. 2 2ND FLR/FAN RM NORTH | HOMOGENEOUS; NON-FRIABLE; LITE BROWN; SAND PLASTER; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |

Lab Supervisor Signature and Date: 3/3/16

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## FACILITIES SERVICES DIVISION
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

34628

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT DESC: Campus Modernization COLIN #: 10366808

SAMPLED BY: Glenn Colquett DATE SAMPLED: 2-3-16 DEPT. / CONSULTANT: CWS ENV. TEL: 714-525-5715

Fill in all information legibly and precisely. Original must be submitted with the samples. Make a copy before submitting samples. Results and a copy of the Chain of Custody (COC) with sample numbers will be submitted to FETU when analysis is completed. ***USE BLACK/BLUE INK ONLY. DO NOT USE WHITE OUT! ALL RUSH ANALYSIS AND POINT COUNT REQUESTS MUST BE APPROVED BY FETU SUPERVISORS.***

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (YES or NO) |
|---|---|---|---|---|---|---|---|
| 1603-0120 | 121 | 013 DCP | Class Rm Bldg #2 | 2nd Floor Fan room | SW | Sand Plaster walls | NO |
| 1603-0121 | 122 | ↓ | ↓ | Roof | South | Pitch Pocket mastic | ↓ |
| 1603-0122 | 123 | ↓ | ↓ | ↓ | East | ↓ | ↓ |
| 1603-0123 | 124 | ↓ | ↓ | ↓ | NW | ↓ | ↓ |
| 1603-0124 | 125 | 006 C37 | P.E. Bldg. | Exterior window | SW | Window Putty | ↓ |
| 1603-0125 | 126 | ↓ | ↓ | ↓ | North | ↓ | ↓ |
| 1603-0126 | 127 | ↓ | ↓ | ↓ | NW | ↓ | ↓ |
| 1603-0127 | 128 | 010 DAD | Girls Gym | Exercise RM | SE | 12x12 Random wall Tile w/adhesive | Yes |
| 1603-0128 | 129 | ↓ | ↓ | ↓ | NE | ↓ | ↓ |
| 1603-0129 | 130 | ↓ | ↓ | ↓ | West | ↓ | ↓ |
| 1603-0130 | 131 | ↓ | ↓ | Fan Room | West | Duct seam sealant & tape | ↓ |
| 1603-0131 | 132 | ↓ | ↓ | ↓ | South | ↓ | ↓ |

| TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | # OF SAMPLES |
|---|---|---|---|
| 2-24-16 2:45pm | Glenn Colquett G.A Colquett | ENV-CWS | 12 |
| 2/24/16 4:42pm | Robert Estrada Robert Estrada | F.E.T.J. | 12 |
| 3/1/16 8:15am | Arnold Sulit | PSD LAB | 12 |
| | | | |
| | | | |

Maximo Work Order Number: 26044555 Project Type: ☐ Maintenance (MA) ☐ Deferred Maintenance ☐ Bond (specify: K,R,Y,Q) ☐ Other:

*FETU USE ONLY*

FETU REVIEWED BY: G. NERI RUSH? ☐ Yes ☒ No APPROVAL:

FETU REVIEW DATE: 3-29-16 POINT COUNT? ☐ Yes ☐ No PT. CT. RUSH? ☐ Yes ☐ No APPROVAL:

Rev. 9/3/15

Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030120 | MS | 03/02/2016 | 013BCP : CLSRM. BLDG. 2<br>2ND FLR/FAN RM<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>LITE BROWN;<br>SAND PLASTER;<br>GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030121 | MS | 03/02/2016 | 013BCP : CLSRM. BLDG. 2<br>ROOF<br>SOUTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE<br>TAR |
| 2016030122-A | MS | 03/02/2016 | 013BCP : CLSRM. BLDG. 2<br>ROOF<br>EAST | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE<br>TAR |
| 2016030122-B | MS | 03/02/2016 | 013BCP : CLSRM. BLDG. 2<br>ROOF<br>EAST | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROOF MATERIAL;<br>TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40% FIBERGLASS<br>ROCK, TAR |
| 2016030123 | MS | 03/02/2016 | 013BCP : CLSRM. BLDG. 2<br>ROOF<br>NW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% CELLULOSE<br>TAR |
| 2016030124-A | MS | 03/02/2016 | 006CBJ : P.E BLDG.<br>EXTER. WINDOW<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>OFF WHITE;<br>PAINT;<br>PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030124-B | MS | 03/02/2016 | 006CBJ : P.E BLDG.<br>EXTER. WINDOW<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>OFF WHITE;<br>PUTTY;<br>COATED MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030125-A | MS | 03/02/2016 | 006CBJ : P.E BLDG.<br>EXTER. WINDOW<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>OFF WHITE;<br>PAINT;<br>PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030125-B | MS | 03/02/2016 | 006CBJ : P.E BLDG.<br>EXTER. WINDOW<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BEIGE;<br>PUTTY;<br>COATED MATERIAL | 2 | 0 | 0 | 0 | 0 | 0 | 2 | BINDER |

**COMMENT(S): DIFFERENT FROM 1603/0124.**

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030126-A | MS | 03/02/2016 | 006CBJ : P.E BLDG. EXTER. WINDOW NW | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| | | | | COMMENT(S): DIFFERENT FROM 1603/0124. | | | | | | | | |
| 2016030126-B | MS | 03/02/2016 | 006CBJ : P.E BLDG. EXTER. WINDOW NW | HOMOGENEOUS; NON-FRIABLE; GRAY; PUTTY; COATED MATERIAL | 2 | 0 | 0 | 0 | 0 | 0 | 2 | BINDER |
| 2016030127-A | MS | 03/02/2016 | 010DAP : GIRLS GYM EXERCISE RM SE | HOMOGENEOUS; FRIABLE; OFF WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030127-B | MS | 03/02/2016 | 010DAP : GIRLS GYM EXERCISE RM SE | HOMOGENEOUS; FRIABLE; BROWN; WALL TILE; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 98% CELLULOSE BINDER |
| 2016030127-C | MS | 03/02/2016 | 010DAP : GIRLS GYM EXERCISE RM SE | HOMOGENEOUS; FRIABLE; BROWN; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030127-D | MS | 03/02/2016 | 010DAP : GIRLS GYM EXERCISE RM SE | HOMOGENEOUS; FRIABLE; OFF WHITE; PLASTER; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030128-A | MS | 03/02/2016 | 010DAP : GIRLS GYM EXERCISE RM NE | HOMOGENEOUS; FRIABLE; OFF WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030128-B | MS | 03/02/2016 | 010DAP : GIRLS GYM EXERCISE RM NE | HOMOGENEOUS; FRIABLE; BROWN; WALL TILE; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 98% CELLULOSE BINDER |
| 2016030128-C | MS | 03/02/2016 | 010DAP : GIRLS GYM EXERCISE RM NE | HOMOGENEOUS; FRIABLE; BROWN; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |

Lab Supervisor Signature and Date: 3/3/16

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030128-D | MS | 03/02/2016 | 010DAP : GIRLS GYM EXERCISE RM NE | HOMOGENEOUS; FRIABLE; OFF WHITE; PLASTER; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030129-A | MS | 03/02/2016 | 010DAP : GIRLS GYM EXERCISE RM WEST | HOMOGENEOUS; FRIABLE; OFF WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030129-B | MS | 03/02/2016 | 010DAP : GIRLS GYM EXERCISE RM WEST | HOMOGENEOUS; FRIABLE; BROWN; WALL TILE; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 98% CELLULOSE BINDER |
| 2016030129-C | MS | 03/02/2016 | 010DAP : GIRLS GYM EXERCISE RM WEST | HOMOGENEOUS; FRIABLE; BROWN; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030129-D | MS | 03/02/2016 | 010DAP : GIRLS GYM EXERCISE RM WEST | HOMOGENEOUS; FRIABLE; OFF WHITE; PLASTER; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030130-A | MS | 03/02/2016 | 010DAP : GIRLS GYM FAN RM WEST | HOMOGENEOUS; FRIABLE; OFF WHITE; DUCT TAPE; COATED/ CLOTH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90% CELLULOSE BINDER |
| 2016030130-B | MS | 03/02/2016 | 010DAP : GIRLS GYM FAN RM WEST | HOMOGENEOUS; FRIABLE; YELLOW; INSULATION; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 98% FIBERGLASS DEBRIS |
| 2016030131-A | MS | 03/02/2016 | 010DAP : GIRLS GYM FAN RM SOUTH | HOMOGENEOUS; FRIABLE; OFF WHITE; DUCT TAPE; COATED/ CLOTH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90% CELLULOSE BINDER |
| 2016030131-B | MS | 03/02/2016 | 010DAP : GIRLS GYM FAN RM SOUTH | HOMOGENEOUS; FRIABLE; YELLOW; INSULATION; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 98% FIBERGLASS DEBRIS |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## FACILITIES SERVICES DIVISION
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

34629 / 10366808

SITE NAME: San Pedro High School  CODE: 8850  PROJECT DESC: Campus Modernization  COLIN #: 26044559

SAMPLED BY: Glenn Colquitt  DATE SAMPLED: 2-8-16  DEPT. / CONSULTANT: CNS Environmental, Inc.  TEL: 715 525 5115

Fill in all information legibly and precisely. Original must be submitted with the samples. Make a copy before submitting samples. Results and a copy of the Chain of Custody (COC) with sample numbers will be submitted to FETU when analysis is completed. ***USE BLACK/BLUE INK ONLY. DO NOT USE WHITE OUT! ALL RUSH ANALYSIS AND POINT COUNT REQUESTS MUST BE APPROVED BY FETU SUPERVISORS.***

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (YES or NO) |
|---|---|---|---|---|---|---|---|
| 1603-0132 | 133 | 010DAP | Girl's Gym | Fan Rm | Northeast | Duct seam sealant tape | yes |
| 1603-0133 | 134 | ↓ | ↓ | ↓ | Southwest | Sand Plaster walls | NO |
| 1603-0134 | 135 | ↓ | ↓ | ↓ | North East | ↓ | ↓ |
| 1603-0135 | 136 | ↓ | ↓ | ↓ | Northwest | ↓ | ↓ |
| 1603-0136 | 137 | ↓ | ↓ | ↓ | Southwest | Sand Plaster ceiling | ↓ |
| 1603-0137 | 138 | ↓ | ↓ | ↓ | North | ↓ | ↓ |
| 1603-0138 | 139 | ↓ | ↓ | ↓ | South | ↓ | ↓ |
| 1603-0139 | 140 | ↓ | ↓ | Exterior Portico | South | Stucco ceiling | ↓ |
| 1603-0140 | 141 | ↓ | ↓ | ↓ | center | ↓ | ↓ |
| 1603-0141 | 142 | ↓ | ↓ | ↓ | North | ↓ | ↓ |
| 1603-0142 | 143 | 004BDS | Admin/classroom | Main office/safe | Southwest | Brown floor sheeting w/ Adhesive | NO |
| 1603-0143 | 144 | ↓ | ↓ | ↓ | west | ↓ | NO |

| | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | # OF SAMPLES |
|---|---|---|---|---|
| 2-24-16 | 2:45pm | Glenn Colquitt G Colquitt | CNS ENV. | 12 |
| 2/24/16 | 4:43 p/m | Robert Estrada Robert Estrada | F.E.T.J. | 12 |
| 3/1/16 | 8:15am | Rolo Soldi | FSD Lab | 12 |
| | | | | |
| | | | | |

Maximo Work Order Number: 26044559  Project Type: ☐ Maintenance (MA) ☐ Deferred Maintenance ☐ Bond (specify: K,R,Y,Q) ☐ Other:

*FETU USE ONLY*

FETU REVIEWED BY: G. NERI  RUSH? ☐ Yes ☑ No  APPROVAL:

FETU REVIEW DATE: 2-29-16  POINT COUNT? ☐ Yes ☐ No  PT. CT. RUSH? ☐ Yes ☐ No  APPROVAL:

Rev. 9/3/15

Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030132-A | MS | 03/02/2016 | 010DAP : GIRLS GYM FAN RM NE | HOMOGENEOUS; FRIABLE; OFF WHITE; DUCT TAPE; COATED/ CLOTH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90% CELLULOSE BINDER |
| 2016030132-B | MS | 03/02/2016 | 010DAP : GIRLS GYM FAN RM NE | HOMOGENEOUS; FRIABLE; YELLOW; INSULATION; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 98% FIBERGLASS DEBRIS |
| 2016030133-A | MS | 03/02/2016 | 010DAP : GIRLS GYM FAN RM SW | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; SAND PLASTER; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030133-B | MS | 03/02/2016 | 010DAP : GIRLS GYM FAN RM SW | HOMOGENEOUS; NON-FRIABLE; LITE BROWN; PLASTER; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030134-A | MS | 03/02/2016 | 010DAP : GIRLS GYM FAN RM NE | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; SAND PLASTER; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030134-B | MS | 03/02/2016 | 010DAP : GIRLS GYM FAN RM NE | HOMOGENEOUS; NON-FRIABLE; LITE BROWN; PLASTER; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030135-A | MS | 03/02/2016 | 010DAP : GIRLS GYM FAN RM NW | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; SAND PLASTER; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030135-B | MS | 03/02/2016 | 010DAP : GIRLS GYM FAN RM NW | HOMOGENEOUS; NON-FRIABLE; LITE BROWN; PLASTER; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030136-A | MS | 03/02/2016 | 010DAP : GIRLS GYM FAN RM SW | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; SAND PLASTER; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030136-B | MS | 03/02/2016 | 010DAP : GIRLS GYM<br>FAN RM<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>LITE BROWN;<br>PLASTER;<br>GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030137-A | MS | 03/02/2016 | 010DAP : GIRLS GYM<br>FAN RM<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>OFF WHITE;<br>SAND PLASTER;<br>GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030137-B | MS | 03/02/2016 | 010DAP : GIRLS GYM<br>FAN RM<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>LITE BROWN;<br>PLASTER;<br>GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030138-A | MS | 03/02/2016 | 010DAP : GIRLS GYM<br>FAN RM<br>SOUTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>OFF WHITE;<br>SAND PLASTER;<br>GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030138-B | MS | 03/02/2016 | 010DAP : GIRLS GYM<br>FAN RM<br>SOUTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>LITE BROWN;<br>PLASTER;<br>GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030139-A | MS | 03/02/2016 | 010DAP : GIRLS GYM<br>EXTER. PORTICO<br>SOUTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>OFF WHITE;<br>PAINT;<br>PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030139-B | MS | 03/02/2016 | 010DAP : GIRLS GYM<br>EXTER. PORTICO<br>SOUTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BROWN;<br>COATING;<br>GRANULAR | 1 | 0 | 0 | 0 | 0 | 0 | 1 | CARBONATES, ROCK |
| 2016030139-C | MS | 03/02/2016 | 010DAP : GIRLS GYM<br>EXTER. PORTICO<br>SOUTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>GRAY;<br>STUCCO;<br>GRANULAR | 1 | 0 | 0 | 0 | 0 | 0 | 1 | BINDER, ROCK |
| 2016030140-A | MS | 03/02/2016 | 010DAP : GIRLS GYM<br>EXTER. PORTICO<br>CENTER | HOMOGENEOUS;<br>NON-FRIABLE;<br>OFF WHITE;<br>PAINT;<br>PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030140-B | MS | 03/02/2016 | 010DAP : GIRLS GYM EXTER. PORTICO CENTER | HOMOGENEOUS; NON-FRIABLE; BROWN; COATING; GRANULAR | 1 | 0 | 0 | 0 | 0 | 0 | 1 | CARBONATES, ROCK |
| 2016030140-C | MS | 03/02/2016 | 010DAP : GIRLS GYM EXTER. PORTICO CENTER | HOMOGENEOUS; NON-FRIABLE; GRAY; STUCCO; GRANULAR | 1 | 0 | 0 | 0 | 0 | 0 | 1 | BINDER, ROCK |
| 2016030141-A | MS | 03/02/2016 | 010DAP : GIRLS GYM EXTER. PORTICO NORTH | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030141-B | MS | 03/02/2016 | 010DAP : GIRLS GYM EXTER. PORTICO NORTH | HOMOGENEOUS; NON-FRIABLE; BROWN; COATING; GRANULAR | 1 | 0 | 0 | 0 | 0 | 0 | 1 | CARBONATES, ROCK |
| 2016030141-C | MS | 03/02/2016 | 010DAP : GIRLS GYM EXTER. PORTICO NORTH | HOMOGENEOUS; NON-FRIABLE; GRAY; STUCCO; GRANULAR | 1 | 0 | 0 | 0 | 0 | 0 | 1 | BINDER, ROCK |
| 2016030142-A | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. MAIN OFFICE/SAFE SW | HOMOGENEOUS; NON-FRIABLE; BROWN; FLOOR SHEETING; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20% CELLULOSE BINDER |
| 2016030142-B | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. MAIN OFFICE/SAFE SW | HOMOGENEOUS; NON-FRIABLE; BROWN; BACKING MATERIAL; WOVEN FABRIC | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% CELLULOSE |
| 2016030142-C | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. MAIN OFFICE/SAFE SW | HOMOGENEOUS; NON-FRIABLE; DARK BROWN; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030143-A | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. MAIN OFFICE/SAFE WEST | HOMOGENEOUS; NON-FRIABLE; BROWN; FLOOR SHEETING; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20% CELLULOSE BINDER |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1. - 5 % considered non-quantifiable.
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Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030143-B | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. MAIN OFFICE/SAFE WEST | HOMOGENEOUS; NON-FRIABLE; BROWN; BACKING MATERIAL; WOVEN FABRIC | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% CELLULOSE |
| 2016030143-C | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. MAIN OFFICE/SAFE WEST | HOMOGENEOUS; NON-FRIABLE; DARK BROWN; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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Los Angeles Unified School District
Facilities Services Division
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 745-1138

# Asbestos Point Count Analysis Laboratory Report

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116 (1000 Point Count)
Date Sampled: 2/8/2016
Date Received: 3/1/2016
Date Requested: 3/7/2016



| LAUSD Lab# | MIC | Date Analyzed | Material Description | Percentage Reduction | | | Detection Limit | Counts | | Analytical Results |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ashed | Acidification | Total | | Asbestos | Total | |
| 2016030139B,C | MS | 3/9/2016 | Coating and Stucco | 5.6902 | 23.0094 | 28.6996 | 0.07 | 25 | 1000 | 1.78% Chrysotile |
| 2016030140B,C | ---- | ---- | Coating and Stucco | 4.3561 | 26.1814 | 30.5375 | 0.07 | ---- | ---- | Not Analyzed |
| 2016030141B,C | ---- | ---- | Coating and Stucco | 3.1658 | 18.1057 | 21.2715 | 0.08 | ---- | ---- | Not Analyzed |

Lab Supervisor Signature and Date: 3/9/2016

Signature of Analyst:

This report relates to only the material tested. This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government.
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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## FACILITIES SERVICES DIVISION
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

SITE NAME: San Pedro High School CODE: 8850 PROJECT DESC: Campus Modernization 31630 COLIN #10366808

SAMPLED BY: Glenn Colquitt DATE SAMPLED: 2-8-16 DEPT. / CONSULTANT: CWS Environmental, Inc TEL: 714 525 5115

Fill in all information legibly and precisely. Original must be submitted with the samples. Make a copy before submitting samples. Results and a copy of the Chain of Custody (COC) with sample numbers will be submitted to FETU when analysis is completed. ***USE BLACK/BLUE INK ONLY. DO NOT USE WHITE OUT! ALL RUSH ANALYSIS AND POINT COUNT REQUESTS MUST BE APPROVED BY FETU SUPERVISORS.***

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (YES or NO) |
|---|---|---|---|---|---|---|---|
| 1603-0144 | 145 | 004 BD J | Admin/Classroom | Main office/Safe | South | Brown floorsheeting w/mastic | NO |
| 1603-0145 | 146 | ↓ | ↓ | 1st Floor Stairs West | Southwest | Black w/white streak floorsheeting w/ white mastic | NO |
| 1603-0146 | 147 | ↓ | ↓ | 1st Floor Stairs North | North | ↓ | NO |
| 1603-0147 | 148 | ↓ | ↓ | ↓ | Northeast | ↓ | NO |
| 1603-0148 | 149 | ↓ | ↓ | Center Stairway landing SW 1st/2nd Floor | East | 12x12 Brown F.T. w/mastic | NO |
| 1603-0149 | 150 | ↓ | ↓ | ↓ | Northwest | ↓ | ↓ |
| 1603-0150 | 151 | ↓ | ↓ | ↓ | SW | ↓ | ↓ |
| 1603-0151 | 152 | ↓ | ↓ | Rm 213 | South East | 9x9 red/orange F.T. w/mastic | NO |
| 1603-0152 | 153 | ↓ | ↓ | ↓ | Northwest | ↓ | ↓ |
| 1603-0153 | 154 | ↓ | ↓ | Rm 211 | West | ↓ | ↓ |
| 1603-0154 | 155 | ↓ | ↓ | Rm 116 | East | 12x12 white F.T. w/mastic | NO |
| 1603-0155 | 156 | ↓ | ↓ | ↓ | West | ↓ | ↓ |

| DATE | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | # OF SAMPLES |
|---|---|---|---|---|
| 2-24-16 | 2:45 pm | Glenn Colquitt | CWS ENV. | 12 |
| 2/24/16 | 4:44 PM | Robert Estrada | F.E.T.J. | 12 |
| 3/1/16 | 8:15 am | Mold Guild | PSD LAS | 12 |
| | | | | |
| | | | | |

Maximo Work Order Number: 26044559 Project Type: ☐ Maintenance (MA) ☐ Deferred Maintenance ☐ Bond (specify: K,R,Y,Q) ☐ Other:

*FETU USE ONLY*

FETU REVIEWED BY: G. NERI RUSH? ☐ Yes ☒ No APPROVAL:

FETU REVIEW DATE: 2/29/16 POINT COUNT? ☐ Yes ☐ No PT. CT. RUSH? ☐ Yes ☐ No APPROVAL:

Rev. 9/3/15

Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030144-A | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. MAIN OFFICE/SAFE SOUTH | HOMOGENEOUS; NON-FRIABLE; BROWN; FLOOR SHEETING; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20% CELLULOSE BINDER |
| 2016030144-B | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. MAIN OFFICE/SAFE SOUTH | HOMOGENEOUS; NON-FRIABLE; BROWN; BACKING MATERIAL; WOVEN FABRIC | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% CELLULOSE |
| 2016030144-C | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. MAIN OFFICE/SAFE SOUTH | HOMOGENEOUS; NON-FRIABLE; DARK BROWN; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030145-A | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. 1ST FLR/W. STAIRS SW | HOMOGENEOUS; NON-FRIABLE; BLACK; FLOOR SHEETING; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030145-B | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. 1ST FLR/W. STAIRS SW | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; ADHESIVE; RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030146-A | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. 1ST FLR/NO. STAIRS NORTH | HOMOGENEOUS; NON-FRIABLE; BLACK; FLOOR SHEETING; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030146-B | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. 1ST FLR/NO. STAIRS NORTH | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; ADHESIVE; RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030147-A | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. 1ST FLR/NO. STAIRS NE | HOMOGENEOUS; NON-FRIABLE; BLACK; FLOOR SHEETING; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030147-B | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. 1ST FLR/NO. STAIRS NE | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; ADHESIVE; RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |

Lab Supervisor Signature and Date: _____ 3 / 3 / 16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030148-A | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. CTR. STAIRWAY LANDING B/W 1ST & 2ND FLRS. EAST | HOMOGENEOUS; NON-FRIABLE; BROWN; FLOOR TILE; VINYL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030148-B | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. CTR. STAIRWAY LANDING B/W 1ST & 2ND FLRS. EAST | HOMOGENEOUS; NON-FRIABLE; YELLOW; ADHESIVE; RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030149-A | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. CTR. STAIRWAY LANDING B/W 1ST & 2ND FLRS. NW | HOMOGENEOUS; NON-FRIABLE; BROWN; FLOOR TILE; VINYL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030149-B | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. CTR. STAIRWAY LANDING B/W 1ST & 2ND FLRS. NW | HOMOGENEOUS; NON-FRIABLE; YELLOW; ADHESIVE; RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030150-A | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. CTR. STAIRWAY LANDING B/W 1ST & 2ND FLRS. SW | HOMOGENEOUS; NON-FRIABLE; BROWN; FLOOR TILE; VINYL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030150-B | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. CTR. STAIRWAY LANDING B/W 1ST & 2ND FLRS. SW | HOMOGENEOUS; NON-FRIABLE; YELLOW; ADHESIVE; RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030151-A | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 213 SE | HOMOGENEOUS; NON-FRIABLE; ORANGE; FLOOR TILE; VINYL | 3 | 0 | 0 | 0 | 0 | 0 | 3 | BINDER |
| 2016030151-B | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 213 SE | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; RESIN-LIKE | 7 | 0 | 0 | 0 | 0 | 0 | 7 | TAR |
| 2016030152-A | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 213 NW | HOMOGENEOUS; NON-FRIABLE; ORANGE; FLOOR TILE; VINYL | 3 | 0 | 0 | 0 | 0 | 0 | 3 | BINDER |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030152-B | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 213 NW | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; RESIN-LIKE | 7 | 0 | 0 | 0 | 0 | 0 | 7 | TAR |
| 2016030153-A | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 211 WEST | HOMOGENEOUS; NON-FRIABLE; ORANGE; FLOOR TILE; VINYL | 3 | 0 | 0 | 0 | 0 | 0 | 3 | BINDER |
| 2016030153-B | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 211 WEST | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; RESIN-LIKE | 7 | 0 | 0 | 0 | 0 | 0 | 7 | TAR |
| 2016030154-A | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM.116 EAST | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; FLOOR TILE; VINYL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030154-B | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM.116 EAST | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | TAR |
| 2016030154-C | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM.116 EAST | HOMOGENEOUS; NON-FRIABLE; GRAY; FILLER; POWDERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030155-A | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM.116 WEST | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; FLOOR TILE; VINYL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030155-B | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM.116 WEST | HOMOGENEOUS; NON-FRIABLE; BLACK; MASTIC; RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | TAR |
| 2016030155-C | MS | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM.116 WEST | HOMOGENEOUS; NON-FRIABLE; GRAY; FILLER; POWDERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |

Lab Supervisor Signature and Date: 3/3/16

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## FACILITIES SERVICES DIVISION
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

SITE NAME: San Pedro High School CODE: 8850 PROJECT DESC: Campus Modernization 34631 COLIN #: 10366808

SAMPLED BY: Glenn Colquitt DATE SAMPLED: 2-8-16 DEPT. / CONSULTANT: CAS Environmental, Inc. TEL: 714 525 5115

Fill in all information legibly and precisely. Original must be submitted with the samples. Make a copy before submitting samples. Results and a copy of the Chain of Custody (COC) with sample numbers will be submitted to FETU when analysis is completed. ***USE BLACK/BLUE INK ONLY. DO NOT USE WHITE OUT! ALL RUSH ANALYSIS AND POINT COUNT REQUESTS MUST BE APPROVED BY FETU SUPERVISORS.***

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (YES or NO) |
|---|---|---|---|---|---|---|---|
| 1603-0156 | 157 | 004 BDJ | Admin/classroom | Rm 116 | South | 12x12 white F.T. w/mastic | NO |
| 1603-0157 | 158 | ↓ | ↓ | ↓ | South | 12x12 cottage Tan FT w/mastic | NO |
| 1603-0158 | 159 | | | | West | ↓ | ↓ |
| 1603-0159 | 160 | ↓ | ↓ | | East | ↓ | ↓ |
| 1603-0160 | 161 | 004 BDJ | Admin/classroom | | West | 12x12 Blue FT w/mastic | NO |
| 1603-0161 | 162 | ↓ | ↓ | | East | ↓ | ↓ |
| 1603-0162 | 163 | | | | South | ↓ | ↓ |
| 1603-0163 | 164 | | | | Southeast | 4" Black coveback w/ Adhesive | NO |
| 1603-0164 | 165 | | | | Northeast | ↓ | ↓ |
| 1603-0165 | 166 | ↓ | ↓ | ↓ | Northwest | ↓ | ↓ |
| 1603-0166 | 167 | 004 BDJ | Admin/classRm | Basement Rm 2 | North | 4" Tan coveback w/ Adhesive | NO |
| 1603-0167 | 168 | ↓ | ↓ | Basement Rm 1 | Southeast | ↓ | ↓ |

| DATE | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | # OF SAMPLES |
|---|---|---|---|---|
| 2-24-16 | 2:45pm | Glenn Colquitt G.A. Colquitt | CAS ENV. | 12 |
| 2/24/16 | 4:45PM | Robert Estrada Robert Estrada | F.E.T.J. | 12 |
| 3/1/16 | 8:15am | Mohd Sulaiman | PCD Lab | 12 |
| | | | | |
| | | | | |

Maximo Work Order Number: 76044555 Project Type: ☐ Maintenance (MA) ☐ Deferred Maintenance ☐ Bond (specify: K,R,Y,Q) ☐ Other:

*FETU USE ONLY*

FETU REVIEWED BY: G. NERI RUSH? ☐ Yes ☒ No APPROVAL:

FETU REVIEW DATE: 2-29-16 POINT COUNT? ☐ Yes ☐ No PT. CT. RUSH? ☐ Yes ☐ No APPROVAL:

Rev. 9/3/15

Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030156-A | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 116 SOUTH | HOMOGENEOUS; NON-FRIABLE; WHITE; FLOOR TILE; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030156-B | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 116 SOUTH | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ BROWN; MASTIC; TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE, MINERAL FILLER, TAR |
| 2016030157-A | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 116 SOUTH | HOMOGENEOUS; NON-FRIABLE; TAN; FLOOR TILE; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030157-B | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 116 SOUTH | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ BROWN; MASTIC; TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE, MINERAL FILLER, TAR |
| 2016030158-A | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 116 WEST | HOMOGENEOUS; NON-FRIABLE; TAN; FLOOR TILE; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030158-B | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 116 WEST | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ GRAY; MASTIC; TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | MINERAL FILLER, TAR |
| 2016030159-A | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 116 EAST | HOMOGENEOUS; NON-FRIABLE; TAN; FLOOR TILE; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030159-B | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 116 EAST | NON-HOMOGENEOUS; NON-FRIABLE; BLACK/ BROWN/ GRAY; MASTIC; TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE, MINERAL FILLER, TAR |
| 2016030160-A | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 116 WEST | HOMOGENEOUS; NON-FRIABLE; BLUE; FLOOR TILE; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030160-B | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 116 WEST | HOMOGENEOUS; NON-FRIABLE; BLACK/ GRAY; MASTIC; TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | MINERAL FILLER, TAR |
| 2016030161-A | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 116 EAST | HOMOGENEOUS; NON-FRIABLE; BLUE; FLOOR TILE; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030161-B | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 116 EAST | HOMOGENEOUS; NON-FRIABLE; BLACK/ BROWN/ GRAY; MASTIC; TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE, MINERAL FILLER, TAR |
| 2016030162-A | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 116 SOUTH | HOMOGENEOUS; NON-FRIABLE; BLUE; FLOOR TILE; FLAT SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030162-B | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 116 SOUTH | HOMOGENEOUS; NON-FRIABLE; BLACK/ BROWN/ GRAY; MASTIC; TAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE, MINERAL FILLER, TAR |
| 2016030163-A | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 116 SE | HOMOGENEOUS; NON-FRIABLE; BLACK; COVE BASE; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030163-B | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 116 SE | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030163-C | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 116 SE | NON-HOMOGENEOUS; NON-FRIABLE; BLUE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030164-A | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 116 NE | HOMOGENEOUS; NON-FRIABLE; BLACK; COVE BASE; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |

Lab Supervisor Signature and Date: _____ 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030164-B | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 116 NE | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030165-A | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 116 NW | HOMOGENEOUS; NON-FRIABLE; BLACK; COVE BASE; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030165-B | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. RM. 116 NW | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030166-A | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. BASEMENT/RM. 2 NORTH | HOMOGENEOUS; NON-FRIABLE; TAN; COVE BASE; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030166-B | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. BASEMENT/RM. 2 NORTH | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030167-A | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. BASEMENT/RM. 1 SE | HOMOGENEOUS; NON-FRIABLE; TAN; COVE BASE; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030167-B | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. BASEMENT/RM. 1 SE | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |

Lab Supervisor Signature and Date: 3/3/16

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## FACILITIES SERVICES DIVISION
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

SITE NAME: San Pedro High School CODE: 8850 PROJECT DESC: Campus Modernization 34632 COLIN #: 10366908

SAMPLED BY: Glenn Colquitt DATE SAMPLED: 2-8-16 DEPT. / CONSULTANT: CNS Environmental, Inc TEL: 714 525 5115

Fill in all information legibly and precisely. Original must be submitted with the samples. Make a copy before submitting samples. Results and a copy of the Chain of Custody (COC) with sample numbers will be submitted to FETU when analysis is completed. ***USE BLACK/BLUE INK ONLY. DO NOT USE WHITE OUT! ALL RUSH ANALYSIS AND POINT COUNT REQUESTS MUST BE APPROVED BY FETU SUPERVISORS.***

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (YES or NO) |
|---|---|---|---|---|---|---|---|
| 1603-0168 | 169 | 004BDJ | Admin/classroom | Basement Rm 7 Hall | west | 4" cove base w/ Adhesive TAN | no |
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| DATE: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | # OF SAMPLES |
|---|---|---|---|---|
| 2-24-16 | 2:45 pm | Glenn Colquitt G.A. Colquitt | CNS ERU. | 1 |
| 2/24/16 | 4:46 P/m | Robert Estrada Robt Estrada | F.F.T.J. | 1 |
| 3/1/16 | 8:15am | Mold Surv | PSD Labs | 1 |
| | | | | |
| | | | | |

Maximo Work Order Number: 26044559 Project Type: ☐ Maintenance (MA) ☐ Deferred Maintenance ☐ Bond (specify: K,R,Y,Q) ☐ Other:

*FETU USE ONLY*

FETU REVIEWED BY: G. NEPA RUSH? ☐ Yes ☒ No APPROVAL:

FETU REVIEW DATE: 2/29/16 POINT COUNT? ☐ Yes ☐ No PT. CT. RUSH? ☐ Yes ☐ No APPROVAL:

Rev. 9/3/15

Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030168-A | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. BASEMENT/RM. 1 HALL WEST | HOMOGENEOUS; NON-FRIABLE; TAN; COVE BASE; RUBBERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030168-B | LN | 03/02/2016 | 004BDJ : ADMIN/CLSRM. BASEMENT/RM. 1 HALL WEST | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; ADHESIVE; SOLID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |

Lab Supervisor Signature and Date: 3/3/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## FACILITIES SERVICES DIVISION
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

SITE NAME: SAN Pedro H.S. CODE: 8850 PROJECT DESC: Campus Modernization 34634 COLIN #: 103C808

SAMPLED BY: Glenn Colquitt DATE SAMPLED: 3-1-16 DEPT. / CONSULTANT: CNS ENV. TEL: 714-525-5115

Fill in all information legibly and precisely. Original must be submitted with the samples. Make a copy before submitting samples. Results and a copy of the Chain of Custody (COC) with sample numbers will be submitted to FETU when analysis is completed. ***USE BLACK/BLUE INK ONLY. DO NOT USE WHITE OUT! ALL RUSH ANALYSIS AND POINT COUNT REQUESTS MUST BE APPROVED BY FETU SUPERVISORS.***

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (YES or NO) |
|---|---|---|---|---|---|---|---|
| 1603-0181 | 170 | 013 BCP | CLASSROOM BLD# 2 | Exterior | NORTH | EXTERIOR STUCCO | N |
| 1603-0182 | 171 | ↓ | ↓ | ↓ | NE | ↓ | ↓ |
| 1603-0183 | 172 | ↓ | ↓ | ↓ | SE | ↓ | ↓ |
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| DATE: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | # OF SAMPLES |
|---|---|---|---|---|
| 3-1-16 | 1:42 pm | GLENN Colquitt, G.A. Colquitt | CNS ENV. Inc. | 3 |
| 3-1-16 | 1:42 pm | L. Noble L Noble | FSD Lab | 3 |
| | | | | |
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Maximo Work Order Number: 26044559 Project Type: ☐ Maintenance (MA) ☐ Deferred Maintenance ☐ Bond (specify: K,R,Y,Q) ☐ Other:

*FETU USE ONLY*

FETU REVIEWED BY: G. NERI RUSH? ☐ Yes ☑ No APPROVAL:

FETU REVIEW DATE: 3-1-16 POINT COUNT? ☐ Yes ☐ No PT. CT. RUSH? ☐ Yes ☐ No APPROVAL:

Rev. 9/3/15

Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/01/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030181-A | MS | 03/02/2016 | 013BCP : CLSRM. BLDG. 2 EXTER. NORTH | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030181-B | MS | 03/02/2016 | 013BCP : CLSRM. BLDG. 2 EXTER. NORTH | HOMOGENEOUS; NON-FRIABLE; BROWN; COATING; COATED MATERIAL | 4 | 0 | 0 | 0 | 0 | 0 | 4 | BINDER |
| 2016030181-C | MS | 03/02/2016 | 013BCP : CLSRM. BLDG. 2 EXTER. NORTH | HOMOGENEOUS; NON-FRIABLE; LT.GRAY; STUCCO; GRANULAR | 1 | 0 | 0 | 0 | 0 | 0 | 1 | BINDER, ROCK |
| 2016030182-A | MS | 03/02/2016 | 013BCP : CLSRM. BLDG. 2 EXTER. NE | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030182-B | MS | 03/02/2016 | 013BCP : CLSRM. BLDG. 2 EXTER. NE | HOMOGENEOUS; NON-FRIABLE; BROWN; COATING; COATED MATERIAL | 4 | 0 | 0 | 0 | 0 | 0 | 4 | BINDER |
| 2016030182-C | MS | 03/02/2016 | 013BCP : CLSRM. BLDG. 2 EXTER. NE | HOMOGENEOUS; NON-FRIABLE; LT.GRAY; STUCCO; GRANULAR | 1 | 0 | 0 | 0 | 0 | 0 | 1 | BINDER, ROCK |
| 2016030183-A | MS | 03/02/2016 | 013BCP : CLSRM. BLDG. 2 EXTER. SE | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030183-B | MS | 03/02/2016 | 013BCP : CLSRM. BLDG. 2 EXTER. SE | HOMOGENEOUS; NON-FRIABLE; BROWN; COATING; COATED MATERIAL | 4 | 0 | 0 | 0 | 0 | 0 | 4 | BINDER |
| 2016030183-C | MS | 03/02/2016 | 013BCP : CLSRM. BLDG. 2 EXTER. SE | HOMOGENEOUS; NON-FRIABLE; LT.GRAY; STUCCO; GRANULAR | 1 | 0 | 0 | 0 | 0 | 0 | 1 | BINDER, ROCK |

Lab Supervisor Signature and Date: 3/3/16

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## FACILITIES SERVICES DIVISION
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

SITE NAME: San Pedro High School CODE: 8850 PROJECT DESC: Campus Modernization 31638 COLIN #: 10386808

SAMPLED BY: Glenn Colquitt DATE SAMPLED: 3/4/16 DEPT. / CONSULTANT: CNS Environmental, Inc TEL: 7145255115

Fill in all information legibly and precisely. Original must be submitted with the samples. Make a copy before submitting samples. Results and a copy of the Chain of Custody (COC) with sample numbers will be submitted to FETU when analysis is completed. ***USE BLACK/BLUE INK ONLY. DO NOT USE WHITE OUT! ALL RUSH ANALYSIS AND POINT COUNT REQUESTS MUST BE APPROVED BY FETU SUPERVISORS.***

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (YES or NO) |
|---|---|---|---|---|---|---|---|
| 1603-0197 | 173 | OISDCS | Shop | 166 | Southwest | 12x12 Wall Tile Adhesive | No |
| 1603-0198 | 174 | ↓ | ↓ | ↓ | Center west | ↓ | ↓ |
| 1603-0199 | 175 | ↓ | ↓ | ↓ | Northwest | ↓ | ↓ |
| 1603-0200 | 176 | X0347L | 2/3 Relocatable | Roof | Northeast | Roof shingles | NO |
| 1603-0201 | 177 | ↓ | ↓ | ↓ | North | ↓ | ↓ |
| 1603-0202 | 178 | ↓ | ↓ | ↓ | Southwest | ↓ | ↓ |
| 1603-0203 | 179 | ↓ | ↓ | ↓ | North | Pitch Pocket mastic | NO |
| 1603-0204 | 180 | ↓ | ↓ | ↓ | Southwest | ↓ | ↓ |
| 1603-0205 | 181 | ↓ | ↓ | ↓ | Southeast | ↓ | ↓ |
| 1603-0206 | 182 | X1007m | 2/3 Relocatables | B1 | South | Compound on wood walls | ~~No~~ yes CC |
| 1603-0207 | 183 | ↓ | ↓ | ↓ | Southwest | ↓ | ↓ |
| 1603-0208 | 184 | ↓ | ↓ | B2 | Northwest | ↓ | ↓ |

| DATE | TIME | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | # OF SAMPLES |
|---|---|---|---|---|
| 3-4-16 | 7:00p | Glenn Colquitt, GA Colquitt | CNS Env. Inc. | 12 |
| 3-7-16 | 9:00a | Matthew Harvey, | CNS Environmental Inc | 12 |
| 3-7-16 | 10:40am | L. Noble | FSD Lab | 12 |
| | | | | |
| | | | | |

Maximo Work Order Number: 26044559 Project Type: ☐ Maintenance (MA) ☐ Deferred Maintenance ☐ Bond (specify: K,R,Y,Q) ☐ Other:

*FETU USE ONLY*

FETU REVIEWED BY: RT RUSH? ☐ Yes ☒ No APPROVAL:

FETU REVIEW DATE: 3-7-16 POINT COUNT? ☐ Yes ☐ No PT. CT. RUSH? ☐ Yes ☐ No APPROVAL:

Rev. 9/3/15

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Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

# Asbestos Bulk Sample Analysis
## Laboratory Report

SAN PEDRO HS
8850

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/07/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030197-A | MS | 03/07/2016 | 015DCS : SHOP RM. 166 SW | HOMOGENEOUS; NON-FRIABLE; LT.GRAY; WALL TILE; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% CELLULOSE, 30% FIBERGLASS PERLITE |
| 2016030197-B | MS | 03/07/2016 | 015DCS : SHOP RM. 166 SW | HOMOGENEOUS; NON-FRIABLE; YELLOW; ADHESIVE; RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030198-A | MS | 03/07/2016 | 015DCS : SHOP RM. 166 CTR/WEST | HOMOGENEOUS; NON-FRIABLE; LT.GRAY; WALL TILE; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% CELLULOSE, 30% FIBERGLASS PERLITE |
| 2016030198-B | MS | 03/07/2016 | 015DCS : SHOP RM. 166 CTR/WEST | HOMOGENEOUS; NON-FRIABLE; YELLOW; ADHESIVE; RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030199-A | MS | 03/07/2016 | 015DCS : SHOP RM. 166 NW | HOMOGENEOUS; NON-FRIABLE; LT.GRAY; WALL TILE; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% CELLULOSE, 30% FIBERGLASS PERLITE |
| 2016030199-B | MS | 03/07/2016 | 015DCS : SHOP RM. 166 NW | HOMOGENEOUS; NON-FRIABLE; YELLOW; ADHESIVE; RESIN-LIKE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADHESIVE |
| 2016030200-A | MS | 03/08/2016 | X0347L : 2/3 RELOC. ROOF NE | HOMOGENEOUS; NON-FRIABLE; BLACK; ROOF SHINGLE; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25% FIBERGLASS ROCK, TAR |
| 2016030200-B | MS | 03/08/2016 | X0347L : 2/3 RELOC. ROOF NE | HOMOGENEOUS; NON-FRIABLE; BLACK; ROOF SHINGLE; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25% FIBERGLASS ROCK, TAR |
| 2016030200-C | MS | 03/08/2016 | X0347L : 2/3 RELOC. ROOF NE | HOMOGENEOUS; NON-FRIABLE; BLACK; ROOF SHINGLE; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% CELLULOSE ROCK, TAR |

Lab Supervisor Signature and Date: _____ 3/8/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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Los Angeles Unified School District
Facilities Services Division Laboratory
1449 S. San Pedro St.
Los Angeles, CA 90015
(213)745-1138

**Asbestos Bulk Sample Analysis**
**Laboratory Report**

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116(MOD) July 1993
Date Received: 03/07/2016



| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030200-D | MS | 03/08/2016 | X0347L : 2/3 RELOC. ROOF NE | HOMOGENEOUS; NON-FRIABLE; BLACK; ROOF SHINGLE; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% CELLULOSE ROCK, TAR |
| 2016030200-E | MS | 03/08/2016 | X0347L : 2/3 RELOC. ROOF NE | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40% CELLULOSE TAR |
| 2016030200-F | MS | 03/08/2016 | X0347L : 2/3 RELOC. ROOF NE | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40% CELLULOSE TAR |
| 2016030201-A | MS | 03/08/2016 | X0347L : 2/3 RELOC. ROOF NORTH | HOMOGENEOUS; NON-FRIABLE; BLACK; ROOF SHINGLE; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25% FIBERGLASS ROCK, TAR |
| 2016030201-B | MS | 03/08/2016 | X0347L : 2/3 RELOC. ROOF NORTH | HOMOGENEOUS; NON-FRIABLE; BLACK; ROOF SHINGLE; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25% FIBERGLASS ROCK, TAR |
| 2016030201-C | MS | 03/08/2016 | X0347L : 2/3 RELOC. ROOF NORTH | HOMOGENEOUS; NON-FRIABLE; BLACK; ROOF SHINGLE; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% CELLULOSE ROCK, TAR |
| 2016030201-D | MS | 03/08/2016 | X0347L : 2/3 RELOC. ROOF NORTH | HOMOGENEOUS; NON-FRIABLE; BLACK; ROOF SHINGLE; TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% CELLULOSE ROCK, TAR |
| 2016030201-E | MS | 03/08/2016 | X0347L : 2/3 RELOC. ROOF NORTH | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40% CELLULOSE TAR |
| 2016030201-F | MS | 03/08/2016 | X0347L : 2/3 RELOC. ROOF NORTH | HOMOGENEOUS; NON-FRIABLE; BLACK; FELT; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40% CELLULOSE TAR |

Lab Supervisor Signature and Date: 3/8/16

Signature of Analyst:

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030202-A | MS | 03/08/2016 | X0347L : 2/3 RELOC.<br>ROOF<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROOF SHINGLE;<br>TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25% FIBERGLASS<br>ROCK, TAR |
| 2016030202-B | MS | 03/08/2016 | X0347L : 2/3 RELOC.<br>ROOF<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROOF SHINGLE;<br>TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25% FIBERGLASS<br>ROCK, TAR |
| 2016030202-C | MS | 03/08/2016 | X0347L : 2/3 RELOC.<br>ROOF<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROOF SHINGLE;<br>TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% CELLULOSE<br>ROCK, TAR |
| 2016030202-D | MS | 03/08/2016 | X0347L : 2/3 RELOC.<br>ROOF<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>ROOF SHINGLE;<br>TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30% CELLULOSE<br>ROCK, TAR |
| 2016030202-E | MS | 03/08/2016 | X0347L : 2/3 RELOC.<br>ROOF<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>FELT;<br>TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40% CELLULOSE<br>TAR |
| 2016030202-F | MS | 03/08/2016 | X0347L : 2/3 RELOC.<br>ROOF<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>FELT;<br>TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40% CELLULOSE<br>TAR |
| 2016030203-A | MS | 03/08/2016 | X0347L : 2/3 RELOC.<br>ROOF<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>LITE BROWN;<br>PAINT;<br>PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030203-B | MS | 03/08/2016 | X0347L : 2/3 RELOC.<br>ROOF<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR/ FIBROUS | 10 | 0 | 0 | 0 | 0 | 0 | 10 | TAR |
| 2016030203-C | MS | 03/08/2016 | X0347L : 2/3 RELOC.<br>ROOF<br>NORTH | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>SHINGLE;<br>TARLIKE, ROCK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25% FIBERGLASS<br>ROCK, TAR |

Lab Supervisor Signature and Date: _____ 3/8/16

Signature of Analyst: _____

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**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030204-A | MS | 03/08/2016 | X0347L : 2/3 RELOC.<br>ROOF<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>OFF WHITE;<br>PAINT;<br>PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030204-B | MS | 03/08/2016 | X0347L : 2/3 RELOC.<br>ROOF<br>SW | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR/ FIBROUS | 10 | 0 | 0 | 0 | 0 | 0 | 10 | TAR |
| 2016030205-A | MS | 03/08/2016 | X0347L : 2/3 RELOC.<br>ROOF<br>SE | HOMOGENEOUS;<br>NON-FRIABLE;<br>OFF WHITE;<br>PAINT;<br>PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030205-B | MS | 03/08/2016 | X0347L : 2/3 RELOC.<br>ROOF<br>SE | HOMOGENEOUS;<br>NON-FRIABLE;<br>BLACK;<br>MASTIC;<br>TAR/ FIBROUS | 10 | 0 | 0 | 0 | 0 | 0 | 10 | TAR |
| 2016030206-A | MS | 03/07/2016 | X1007M : 2/3 RELOC.<br>RM. B1<br>SOUTH | HOMOGENEOUS;<br>FRIABLE;<br>OFF WHITE;<br>PAINT;<br>PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030206-B | MS | 03/07/2016 | X1007M : 2/3 RELOC.<br>RM. B1<br>SOUTH | HOMOGENEOUS;<br>FRIABLE;<br>OFF WHITE;<br>COMPOUND MATERIAL;<br>POWDERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | CARBONATES |
| 2016030206-C | MS | 03/07/2016 | X1007M : 2/3 RELOC.<br>RM. B1<br>SOUTH | HOMOGENEOUS;<br>FRIABLE;<br>OFF WHITE;<br>PAINT;<br>PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030206-D | MS | 03/07/2016 | X1007M : 2/3 RELOC.<br>RM. B1<br>SOUTH | HOMOGENEOUS;<br>FRIABLE;<br>OFF WHITE;<br>COMPOUND MATERIAL;<br>POWDERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | CARBONATES |
| 2016030206-E | MS | 03/07/2016 | X1007M : 2/3 RELOC.<br>RM. B1<br>SOUTH | HOMOGENEOUS;<br>FRIABLE;<br>BROWN;<br>WOOD;<br>FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% CELLULOSE |

Lab Supervisor Signature and Date: _____ 3/8/16

Signature of Analyst: _____

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030207-A | MS | 03/07/2016 | X1007M : 2/3 RELOC. RM. B1 SW | HOMOGENEOUS; FRIABLE; OFF WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030207-B | MS | 03/07/2016 | X1007M : 2/3 RELOC. RM. B1 SW | HOMOGENEOUS; FRIABLE; OFF WHITE; COMPOUND MATERIAL; POWDERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | CARBONATES |
| 2016030207-C | MS | 03/07/2016 | X1007M : 2/3 RELOC. RM. B1 SW | HOMOGENEOUS; FRIABLE; OFF WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030207-D | MS | 03/07/2016 | X1007M : 2/3 RELOC. RM. B1 SW | HOMOGENEOUS; FRIABLE; OFF WHITE; COMPOUND MATERIAL; POWDERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | CARBONATES |
| 2016030207-E | MS | 03/07/2016 | X1007M : 2/3 RELOC. RM. B1 SW | HOMOGENEOUS; FRIABLE; BROWN; WOOD; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% CELLULOSE |
| 2016030208-A | MS | 03/07/2016 | X1007M : 2/3 RELOC. RM. B2 NW | HOMOGENEOUS; FRIABLE; OFF WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030208-B | MS | 03/07/2016 | X1007M : 2/3 RELOC. RM. B2 NW | HOMOGENEOUS; FRIABLE; OFF WHITE; COMPOUND MATERIAL; POWDERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | CARBONATES |
| 2016030208-C | MS | 03/07/2016 | X1007M : 2/3 RELOC. RM. B2 NW | HOMOGENEOUS; FRIABLE; OFF WHITE; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030208-D | MS | 03/07/2016 | X1007M : 2/3 RELOC. RM. B2 NW | HOMOGENEOUS; FRIABLE; OFF WHITE; COMPOUND MATERIAL; POWDERY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | CARBONATES |

Lab Supervisor Signature and Date: _____ 3/8/16

Signature of Analyst: _____

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030208-E | MS | 03/07/2016 | X1007M : 2/3 RELOC. RM. B2 NW | HOMOGENEOUS; FRIABLE; BROWN; WOOD; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% CELLULOSE |

Lab Supervisor Signature and Date: 3/8/16

Signature of Analyst:

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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## FACILITIES SERVICES DIVISION
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

SITE NAME: San Pedro High School CODE: 8850 PROJECT DESC: Campus Modernization 34639 COLIN #10366808

SAMPLED BY: Glenn Colquitt DATE SAMPLED: 3/4/16 DEPT. / CONSULTANT: CNS Environmental Inc TEL: 714 525 5115

Fill in all information legibly and precisely. Original must be submitted with the samples. Make a copy before submitting samples. Results and a copy of the Chain of Custody (COC) with sample numbers will be submitted to FETU when analysis is completed. ***USE BLACK/BLUE INK ONLY. DO NOT USE WHITE OUT! ALL RUSH ANALYSIS AND POINT COUNT REQUESTS MUST BE APPROVED BY FETU SUPERVISORS.***

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (YES or NO) |
|---|---|---|---|---|---|---|---|
| 1603-0209 | 185 | 010DAP | Girls Gym | Main | South | Felt Paper under wood floor | yes |
| 1603-0210 | 186 | ↓ | ↓ | ↓ | North East | ↓ | ↓ |
| 1603-0211 | 187 | ↓ | ↓ | ↓ | North | ↓ | ↓ |
| 1603-0212 | 188 | 004BDJ | Admin/classroom | Exterior | South | Dashcoat | no |
| 1603-0213 | 189 | ↓ | ↓ | ↓ | Southwest | ↓ | ↓ |
| 1603-0214 | 190 | ↓ | ↓ | ↓ | SouthEast | ↓ | ↓ |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| DATE: | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | # OF SAMPLES |
|---|---|---|---|---|
| 3-4-16 | 7:00p | Glenn Colquitt, Glenn Colquitt | CNS ENV. Inc. | 4 |
| 3-7-16 | 9:00a | Matthew Harvey, Matthew Harvey | CNS Environmental, Inc | 6 |
| 3-7-16 | 10:40 am | L. Noble | FSD Lab | 6 |
| | | | | |
| | | | | |

Maximo Work Order Number: 26044559 Project Type: ☐ Maintenance (MA) ☐ Deferred Maintenance ☐ Bond (specify: K,R,Y,Q) ☐ Other:

*FETU USE ONLY*

FETU REVIEWED BY: RL FETU REVIEW DATE: 3-7-16

RUSH? ☐ Yes ☒ No APPROVAL:

POINT COUNT? ☐ Yes ☐ No PT. CT. RUSH? ☐ Yes ☐ No APPROVAL:

Rev. 9/3/15

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030209-A | MS | 03/08/2016 | 010DAP : GIRLS GYM MAIN SOUTH | HOMOGENEOUS; FRIABLE; BROWN; PAPER; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% CELLULOSE |
| 2016030209-B | MS | 03/08/2016 | 010DAP : GIRLS GYM MAIN SOUTH | HOMOGENEOUS; FRIABLE; BLACK; TAR; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% FIBERGLASS TAR |
| 2016030209-C | MS | 03/08/2016 | 010DAP : GIRLS GYM MAIN SOUTH | HOMOGENEOUS; FRIABLE; BROWN; PAPER; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% CELLULOSE |
| 2016030209-D | MS | 03/08/2016 | 010DAP : GIRLS GYM MAIN SOUTH | HOMOGENEOUS; FRIABLE; BROWN; WOOD; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% CELLULOSE |
| 2016030210-A | MS | 03/08/2016 | 010DAP : GIRLS GYM MAIN NE | HOMOGENEOUS; FRIABLE; BROWN; PAPER; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% CELLULOSE |
| 2016030210-B | MS | 03/08/2016 | 010DAP : GIRLS GYM MAIN NE | HOMOGENEOUS; FRIABLE; BLACK; TAR; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% FIBERGLASS TAR |
| 2016030210-C | MS | 03/08/2016 | 010DAP : GIRLS GYM MAIN NE | HOMOGENEOUS; FRIABLE; BROWN; PAPER; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% CELLULOSE |
| 2016030211-A | MS | 03/08/2016 | 010DAP : GIRLS GYM MAIN NORTH | HOMOGENEOUS; FRIABLE; BROWN; PAPER; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% CELLULOSE |
| 2016030211-B | MS | 03/08/2016 | 010DAP : GIRLS GYM MAIN NORTH | HOMOGENEOUS; FRIABLE; BLACK; TAR; TAR/ FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% FIBERGLASS TAR |

Lab Supervisor Signature and Date: 3/8/16

Signature of Analyst:

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030211-C | MS | 03/08/2016 | 010DAP : GIRLS GYM MAIN NORTH | HOMOGENEOUS; FRIABLE; BROWN; PAPER; FIBROUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% CELLULOSE |
| 2016030211-D | MS | 03/08/2016 | 010DAP : GIRLS GYM MAIN NORTH | HOMOGENEOUS; FRIABLE; CLEAR; COATING; THIN FILM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030212-A | MS | 03/08/2016 | 004BDJ : ADMIN/CLSRM. EXTER. SOUTH | HOMOGENEOUS; NON-FRIABLE; LITE BROWN; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030212-B | MS | 03/08/2016 | 004BDJ : ADMIN/CLSRM. EXTER. SOUTH | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; COATING; COATED MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030212-C | MS | 03/08/2016 | 004BDJ : ADMIN/CLSRM. EXTER. SOUTH | HOMOGENEOUS; NON-FRIABLE; LITE BROWN; COATING; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |
| 2016030212-D | MS | 03/08/2016 | 004BDJ : ADMIN/CLSRM. EXTER. SOUTH | HOMOGENEOUS; NON-FRIABLE; BROWN; DASHCOAT; COATED MATERIAL | 3 | 0 | 0 | 0 | 0 | 0 | 3 | BINDER |
| 2016030213-A | MS | 03/08/2016 | 004BDJ : ADMIN/CLSRM. EXTER. SW | HOMOGENEOUS; NON-FRIABLE; LITE BROWN; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030213-B | MS | 03/08/2016 | 004BDJ : ADMIN/CLSRM. EXTER. SW | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; COATING; COATED MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030213-C | MS | 03/08/2016 | 004BDJ : ADMIN/CLSRM. EXTER. SW | HOMOGENEOUS; NON-FRIABLE; LITE BROWN; COATING; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |

Lab Supervisor Signature and Date: 3/8/16

Signature of Analyst:

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| LAUSD Lab# | MIC | Date Analyzed | BUILDING/AREA SAMPLED | MATERIAL DESCRIPTION | CHR % | AM % | CROC % | TREM % | ACT % | ANTH % | TOTAL % | MATERIAL BACKGROUND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016030213-D | MS | 03/08/2016 | 004BDJ : ADMIN/CLSRM. EXTER. SW | HOMOGENEOUS; NON-FRIABLE; BROWN; DASHCOAT; COATED MATERIAL | 3 | 0 | 0 | 0 | 0 | 0 | 3 | BINDER |
| | | | | | COMMENT(S): SMALL AMOUNT OF SAMPLE. | | | | | | | |
| 2016030214-A | MS | 03/08/2016 | 004BDJ : ADMIN/CLSRM. EXTER. SE | HOMOGENEOUS; NON-FRIABLE; LITE BROWN; PAINT; PAINT MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PAINT |
| 2016030214-B | MS | 03/08/2016 | 004BDJ : ADMIN/CLSRM. EXTER. SE | HOMOGENEOUS; NON-FRIABLE; OFF WHITE; COATING; COATED MATERIAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER |
| 2016030214-C | MS | 03/08/2016 | 004BDJ : ADMIN/CLSRM. EXTER. SE | HOMOGENEOUS; NON-FRIABLE; BROWN; DASHCOAT; COATED MATERIAL | 3 | 0 | 0 | 0 | 0 | 0 | 3 | BINDER |
| 2016030214-D | MS | 03/08/2016 | 004BDJ : ADMIN/CLSRM. EXTER. SE | HOMOGENEOUS; NON-FRIABLE; GRAY; STUCCO; GRANULAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BINDER, ROCK |

Lab Supervisor Signature and Date: _____ 3/8/16

Signature of Analyst: _____

Note: 0%: No Asbestos Detected; <1%: Asbestos Detected Above 0% and Below or Equal to 1%
NA: Not Applicable. "Quantification done by optical estimate" 1 - 5 % considered non-quantifiable.
This report relates to only the material tested. An asterisk '*' indicates preliminary results.

This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government.
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# LOS ANGELES UNIFIED SCHOOL DISTRICT
## FACILITIES SERVICES DIVISION
## CHAIN-OF-CUSTODY FOR BULK ANALYSIS

SITE NAME: San Pedro H.S. CODE: 8850 PROJECT DESC: Comprehensive Modernization 24895

SAMPLED BY: Glenn Colquitt DATE SAMPLED: 5-10-16 DEPT. / CONSULTANT: CNS ENV, Inc. TEL: 714 525-5115 COLIN #:

Fill in all information legibly and precisely. Original must be submitted with the samples. Make a copy before submitting samples. Results and a copy of the Chain of Custody (COC) with sample numbers will be submitted to FETU when analysis is completed. USE BLACK/BLUE INK ONLY. DO NOT USE WHITE OUT! ALL RUSH ANALYSIS AND POINT COUNT REQUESTS MUST BE APPROVED BY FETU SUPERVISORS.

| LAB NUMBER | SAMPLE NUMBER | BUILDING NUMBER | BUILDING NAME | ROOM NUMBER AND/OR NAME | LOCATION IN ROOM | MATERIAL TYPE (DESCRIBE) | FRIABLE (YES or NO) |
|---|---|---|---|---|---|---|---|
| 1605-0638 | 13 | X1007M | 2/3 Relocatable | B2 | SW | Multi-layer Flooring underlayment build-up. | NO |
| 1605-0639 | 14 | ↓ | ↓ | B2 | SE | ↓ | ↓ |
| 1605-0640 | 15 | ↓ | ↓ | B1 | South | ↓ | ↓ |
| 1605-0641 | 16 | X02444C | 2/3 Relocatable | B16-R.R. | SE | Flooring Sheet underlayment build-up | NO |
| 1605-0642 | 17 | ↓ | ↓ | B16 | East | ↓ | ↓ |
| 1605-0643 | 18 | ↓ | ↓ | B14 | SE | ↓ | ↓ |
| 1605-0644 | 19 | X0347L | 2/3 Relocatable | Girls RR | SW | Multilayer Flooring Built up | NO |
| 1605-0645 | 20 | ↓ | ↓ | mens RR | NW | ↓ | ↓ |
| 1605-0646 | 21 | ↓ | ↓ | Rm 17 | SW | ↓ | ↓ |
| 1605-0647 | 22 | X2384P | 2/3 Reloc Unit | Rm 12 | NW | Multi-Layer Flooring built up on wood | NO |
| 1605-0648 | 23 | ↓ | ↓ | Rm 12 | East | ↓ | ↓ |
| 1605-0649 | 24 | ↓ | ↓ | Rm 13 | SW | ↓ | ↓ |

| DATE | TIME: | NAME (PRINT & SIGN): | DEPARTMENT / AREA / CONSULTANT: | # OF SAMPLES |
|---|---|---|---|---|
| 5-12-16 | 7:00A | Glenn Colquitt, Glenn Colquitt | CNS Environmental, Inc. | 12 |
| 5-12-16 | 7:00A | Mohd Sueb | PSD Cals | 12 |

Maximo Work Order Number: 26 044551

Project Type: ☐ Maintenance (MA) ☐ Deferred Maintenance ☒ Bond (specify: K.R.V.C.) ☐ Other:

FETU USE ONLY

FETU REVIEWED BY: CNS Neri

FETU REVIEW DATE: 5-12-16

RUSH? ☐ Yes ☒ No APPROVAL:

POINT COUNT? ☒ Yes ☐ No PT. CT. RUSH? ☐ Yes ☒ No APPROVAL:

rev. 9-03

Los Angeles Unified School District
Facilities Services Division
1449 S. San Pedro St.
Los Angeles, CA 90015
(213) 745-1138

# Asbestos Point Count Analysis Laboratory Report

**SAN PEDRO HS**
**8850**

NVLAP LAB# 101505-0
Method EPA/600/R-93/116 (1000 Point Count)
Date Sampled: 5/10/2016
Date Received: 5/12/2016
Date Requested: 5/18/2016



| LAUSD Lab# | MIC | Date Analyzed | Material Description | Percentage Reduction | | | Detection Limit | Counts | | Analytical Results |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ashed | Acidification | Total | | Asbestos | Total | |
| 2016050641B | MS | 5/23/2016 | Backing Material, Mastic and Adhesive | 93.9145 | 1.5287 | 95.4432 | 0.005 | 2 | 1000 | <0.1 % |
| 2016050642B | MS | 5/23/2016 | Backing Material, Mastic and Adhesive | 96.4622 | 1.4948 | 97.9570 | 0.002 | 1 | 1000 | <0.1 % |
| 2016050643B | MS | 5/23/2016 | Backing Material, Mastic and Adhesive | 96.8980 | 1.1165 | 98.0145 | 0.002 | 3 | 1000 | <0.1 % |

**Lab Supervisor Signature and Date:** 5/23/2016

**Signature of Analyst:**

This report relates to only the material tested. This report is not used by LAUSD to claim product endorsement by NVLAP or any agency of the U.S. Government.
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# MAJOR ABATEMENT RECORD
## BY CONTRACTOR OR DISTRICT PERSONNEL

1. Location of abatement activity:

   SITE NAME: SAN PEDRO HIGH SCHOOL (8550)

   ADDRESS: 1001 W 15TH. ST

   BUILDING NAME: PHYSICAL EDUCATION BLDG NUMBER: 006 CBS

   ROOM OR SPACE: COACHS OFFICE + STORAGE (9107 + 9106)

2. Reason for abatement: FLOORING REPLACEMENT

3. Detailed description of work: ALL WORK WILL BE CONDUCTED FOLLOWING ALL AHERA + CAUSD GUIDELINES.

4. Abatement method used:
   - ☑ Wet Method
   - ☑ H.E.P.A. Vacuum
   - ☑ Negative Air
   - ☐ Isolation
   - ☐ 3-Stage Decontamination
   - ☐ Mini-Enclosure
   - ☐ Glove Bag
   - ☑ Other: 2 STAGE DECON

5. Start Date: 1-3-06 Completion Date: 1-5-06

6. Approximate quantity of material abated: 380 ☐ (square)/linear feet

7. Type of asbestos-containing material abated: 9" FLOOR TILE & MASTIC

8. Name(s) of personnel involved in the abatement:

**Attach a copy of the project's Personnel Log which contains the name, signature, state of accreditation, and accreditation number of all personnel involved in the abatement.**

ABATEMENT ACTION

And, if work is performed by contractor, complete item 8a below.

8a. Name of Contractor: MATRIX IND

Address: 12215 LOS NIETOS ROAD

D.O.S.H. Registration Number: 599

9. Disposal Location:

Name: La Paz

Address: 26999 Hwy 95 Milepost 128, Parker, AZ

10. Clearance Air Monitoring:

Day's Grades. Sample Numbers STORAGE Room

| | | |
|---|---|---|
| 2006010109 | 2006010122 | |
| 2006010110 | 2006010123 | |
| 2006010111 | 2006010124 | |
| 2006010112 | 2006010125 | |
| 2006010113 | 2006010126 | |

For each of the samples above, attach a copy of the Chain of Custody which contains the name and signature of the sampler, location of samples, and date of collection. Also, attach a copy of the Analysis Report which contains the name and address of the laboratory, date of analysis, results, method of analysis, name and signature of analyst, and a statement that the laboratory meets the requirements of 763.90 (I)(2)(ii).

As soon as abatement is complete, fill in the information above and mail form to:

Complex Project Manager
Asbestos Technical Unit
1240 S. Naomi Avenue
Los Angeles, CA 90021

**DO NOT WRITE BELOW THIS LINE**

Date recorded in Central Plan _____ Date copy sent to site for Management Plan _____

Signed _____ Title ASBESTOS SURVEYOR Date _____

# ASBESTOS ABATEMENT PROJECT

## PERSONNEL LOG

SITE NAME: SAN PEDRO HIGH SCHOOL (8850)

ADDRESS: 1001 W. 15TH ST, San Pedro, CA

BUILDING NAME: PHYSICAL EDUCATION BLDG NUMBER: 900 CBT

ROOM OR SPACE: COACHS OFFICE (9-107).

START DATE: 1-3-06 COMPLETION DATE: 1-5-06 5 days

Complete the following information for each employee involved in the asbestos abatement project, whether performed by the District or by a Contractor.

| Name (Print) | Signature | State of Accreditation | Accreditation Number |
|---|---|---|---|
| JUAN CRUZ | Juan Cruz | CA | 60837 05CSP |
| CESAR BAEZ | CESAR BAEZ | CA | AAWP07230500 1M |
| LEODEGARIO ZAVALA | Leodegario Zavala | CA | AAWT-W-2728-05 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

This log is to be a permanent part of the asbestos project abatement file. Send original to:

Complex Project Manager
Asbestos Technical Unit
1240 S. Naomi Ave., 2nd Floor
Los Angeles, CA 90021

ABATEMENT ACTION

MAJOR ABATEMENT RECORD
BY CONTRACTOR OR DISTRICT PERSONNEL

1. Location of abatement activity:

SITE NAME: San Pedro High School (8850)

ADDRESS: 1001 W. 15th ST, San Pedro CA 91006

BUILDING NAME: P.E Bldg NUMBER: 006 BCJ

ROOM OR SPACE: Boys & Girls Coaches office

2. Reason for abatement: New flooring

3. Detailed description of work: 9" floor Tile and mastic Removal

4. Abatement method used: Wet Method: ; H.E.P.A. Vacuum ✓

Negative Air ✓; Isolation ; 3-Stage Decon. ✓

Mini-Enclosure ; Glove Bag ; Other (Specify)

5. Start Date: 12/23/05 Completion Date: 12/28/05

6. Approximate quantity abated: 3,200± Square Feet

7. Type of asbestos-containing material abated: floor Tile & mastic

8. Name(s) of personnel involved in the abatement:

**Attach a copy of the project personnel log containing the name, signature, state of accreditation, and accreditation number.**

ABATEMENT ACTION

AND, if work is performed by contractor

8a. Name of Contractor: Matrix Env.

Address: 12235 Los Nietos Rd, Santa Fe Springs CA

Contractor D.O.S.H. Registration Number: #589 - CSLB#697132

9. Disposal Location:

Name: La Paz County Landfill

Address: 26499 Hwy 95 mile Post 128, Parker AZ 85344

10. Clearance Air Monitoring:

Sample Numbers:

| Boyle's | G+M's | |
|---|---|---|
| 996158 | 996171 | |
| 996159 | 996172 | |
| 996160 | 996173 | |
| 996161 | 996174 | |
| 996162 | 996175 | |

Attach a copy of the chain of custody for clearance samples containing: name and signature of sampler, location of samples, and date of collection. Also attach a copy of the analysis report including: name and address of the laboratory, date of analysis, results, method of analysis, name and signature of analyst, and a statement that the laboratory meets the requirements of 763.90 (I)(2)(ii).

As soon as abatement is complete, fill in the information above and mail to:

COMPLEX PROJECT MANAGER
ASBESTOS TECHNICAL UNIT
CENTRAL MAINTENANCE SHOPS

DO NOT WRITE BELOW THIS LINE

Date recorded in Central Plan DEC 0 2 2006, Date sent to site for Management Plan DEC 0 2 2006

Signed [signature] Title ASBESTOS SURVEYOR Date DEC 0 2 2006

# APPENDIX B: Asbestos Survey Form A

# ASBESTOS SURVEY FORM A
## Reinspection Survey

School Name: SAN PEDRO SR. Loc. Code: 8850

Building Name: INDUSTRIAL ARTS Building Number: 001CBJ

Building Square Feet: 18313 Height of Typical Room: 18'

Inspector: JESUS C. CARBAJAL Number: 13543

| Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|
| ? A. SAND Plaster Ceilings | Rm 160 All except noted below | 5 | 1/24/02 NEG |
| B. SAND Plaster Walls | ~~THRU-OUT All except noted below~~ | 3+ 7 | NEG. 12-3-97 / NEG. 12-13-94 |
| C. 12"x12" RANDOM Ceiling Tiles w/ MASTIC | RMS. 160, 164, FAC. LOUNGE & (162) | 3+ 3 | 6-6-01 NEG |
| D. 12"x12" STRAIGHT CEILING TILE w/ MASTIC | DRAFTING SHOP (160) Rms. 160, 161, 162, 163, 164 | 3+3 | 6-6-01 NEG |
| E. PIPE INSULATION (Removed 2-3-98) | | 3+3 | POS. 2-15-01 |
| F. 9"x9" BROWN w/ WHITE FLOOR TILE | (162) FAC. LOUNGE | 3 | POS. |
| REMOVED (G.) EXHAUST INSULATION | AUTO SHOP (Rm. 164) | 3 | POS. 10-8-91 |
| H. ✓ SMOOTH SHEET | ROOF | 3 | POS. 8-25-94 |
| I. CAPSHEET | ROOF | 3 | NEG. 8-25-94 |
| J. GRAVEL | ROOF | 3 | NEG. 8-25-94 |
| ✓ K. DRYWALL CEILING w/ JCT | Rm. 164, Rm. 160 Rm. 162 (ABOVE CEILING TILE) COUNTER TOPPING DROPPING Rm. 160 | 3 | POS. 6-6-01 (JCT HOT) |
| ✓ L. CEMENT BOARD | | 3 | POS. 2-12-02 |

Inspector's Signature: JESUS C Date: 10-06-2000

001 CRJ

| | Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|---|
| M. | STUCCO WALL | EXTERIOR | 3 + 3 | NEG 2-5-05 PT. 12-3-07/5-2-08 6-6-08 |
| N. | WINDOW PUTTY SMOOTH | Rm 160, 161, 163 | 3 | NEG BY POINT COUNT 6-6-08 |
| O. | PLASTER WALL MOISTURE | Rm 161 (BEHIND STUCCO WALL) | 3 | NEG BY POINT COUNT |
| P. | BARRIER PAPER | EXTERIOR | 6 | NEG. 5-2-08 |
| REMOVED JUNE/08 Q. | CEMENT BOARD BOILER FIREWALLS AND BRICK | WELDING BOOTHS IN RM. 163 / Rm. 163 | 3 / 6 | POS. 2-12-07 / NEG. 5-29-08 |
| S. | | | | |
| T. | DASH COAT | N.E. CORNER NORTH CENTER S.W. CORNER SOUTH S.E. CORNER E CORNER (EXTERIOR) | 6 | 2-05-05 NEG. PT. CT. 6/9/05 - NEG |
| U. | BLACK MASTIC ON | | | |
| V. | WOOD FLOOR BLOCKS | ROOM 161 | 1 | |
| REMOVED JUNE/08 W. | CEMENT PIPE & VENT 12 X 12 GRAY | KILN EXHAUST AT ROOM # 163 OFFICE IN RM. 160 | N/A | REMOVED NEW AS OF MARCH/08 |
| X. | FLOOR TILE MASTIC UNDER WOOD | | N/A | 12-4-08 BY POINT COUNT |
| Y. | BLACK FLOOR 12X12 BLACK 12X12 YELLOW — MIXED | RM. 163 | 1/5 | NEG. 10-28-08 |
| Z. | FLOOR TILE | RM. 163 — IN THREE STORAGE RMS. | NA | NEW AS OF AUG/2011 |
| AA. | | | | |
| BB. | | | | |
| CC. | | | | |

Inspector's Signature: _____ Date: _____

# ASBESTOS SURVEY FORM A
## Reinspection Survey

School Name: SAN PEDRO SR Loc. Code: 8850

Building Name: AUDITORIUM Building Number: 002BAJ

Building Square Feet: 19717 Height of Typical Room:

Inspector: JESUS C. CARBAJAL Number: 13543

| | Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|---|
| A. | SMOOTH Plaster Ceilings | LOBBY, SEATING AREA, BOYS R/R IN FOYER, BASEMENT R/R, GIRLS R/R IN FOYER — All except noted below | 3+4 2 | 6-6-01 1-20-06 C.M. NEG. 12-14-94 |
| B. | SMOOTH Plaster Walls | BOYS R/R IN FOYER, NORTH HALLWAY, BASEMENT R/R — ~~All except noted below~~ | 44 3 | 1-3-02 NEG 12-14-94 |
| C. | 12"x12" STRAIGHT w/ADHESIVE Ceiling Tiles | BAND RM., AUDITORIUM, | | Sample 2-E-14 ASSUMED POS |
| | REMOVED 9"x9" RED-BLACK | BASEMENT TUNNEL ORCH. PIT. | | |
| D. | FLOOR TILE | BOYS & GIRLS R-R. | N/A | REMOVED |
| | REMOVED BROWN w/MASTIC | AUDITORIUM | | |
| E. | FLOOR SHEETING | AISLES. | N/A | REMOVED AS OF MARCH/06 |
| | 9"x9" MAROON w/WHITE-RED | | | |
| F. | FLOOR TILE 9"x9" BROWN | ORCHESTRA PIT | 3 | POS 7-19-00 |
| G. | FLOOR TILE 9"x9" LT. BROWN w/WHITE & BROWN | ORCHESTRA PIT PATCH | 3 | NEG 7-19-00 |
| H. | FLOOR TILE 9"x9" BEIGE w/WHITE | ORCHESTRA PIT PATCH | 3 | NEG 7-19-00 |
| I. | FLOOR TILE ACOUSTICAL | ORCHESTRA PIT | 3 | NEG 7-19-00 |
| J. | PLASTER CEILING | FOYER | 5 | POS. 4-14-92 ✓ BY POINT COUNT 5-2-08 |
| K. | STUCCO WALL ACOUSTICAL WALL | EXTERIOR (UNDER WALL TILE) | 3/3 | NEG. 12-13-94 |
| L. | | AUDITORIUM | 3 | NEG. 12-14-94 |

* Removed 1-31-01 By Crew

Inspector's Signature: Jesus C. Carbajal Date: 10-06-2000

002BAJ

| | Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|---|
| | SAND | FOYER (TICKET BOOTH & HOPPER, B'M GIRLS DRESS RM & BASEMENT HOPPER | 3 | 4-16-03 |
| M. | PLASTER CEILING | | 4 | NEG. 12-14-94 |
| | SAND | BASEMENT (HOPPER & DRESS RM) FOYER (TICKET BOOTH & HOPPER) | | |
| N. | PLASTER WALL | STAGE CRAFT | 5 | NEG 12-14-94 |
| O. | | | | |
| | WINDOW | Stage Area, Basement | 3 | 6-6-01 |
| P. | PUTTY | | 3 | NEG NEG if later REMOVED |
| | 9x9 DK. GREEN | BAND RM.'s & STAGE RM NEXT TO IT (BASEMENT) | | |
| Removed (Q) May/04 | FLOOR TILE W/MASTIC | | | |
| | 9X9 DK BROWN | BOYS & GIRLS DRESSING ROOMS BY WALL BASEMENT | 6 | POS. 3-9-04 |
| Removed (R) | FLOOR TILE W/MASTIC | | | |
| | PIPE | Hopper Rm. & | | |
| S. | INSULATION | (REMOVED) CRAWLSPACE | 3 | Pos 9-3-88 ✓ |
| | | (REMOVED) ATTIC FAN RM ABOVE FOYER | | |
| T. | | (REMOVED) TUNNEL ACCESS IN BASEMENT STAIRWELL | | |
| | ↓ | ↓ | ↓ | ↓ |
| REMOVED (U) | VIBRATION REDUCERS | FAN ROOMS ABOVE FOYER | N/A | REMOVED AS OF SEPT./07 |
| | 12X12 TAN | BAND RM., BOYS & GIRLS DRESSING RMS., | | NEW |
| V. | FLOOR TILE W/MASTIC | | N/A | MAY/04 |
| | 12X12 BEIGE | STORAGE ROOM | | NEW |
| W. | FLOOR TILE W/MASTIC | | N/A | MAY/04 |
| | (WALLS) | | | BY POINT COUNT |
| X. | DASH COAT | EXTERIOR | 7 | POS. 12-29-04 ✓ |
| | BLACK | AUDITORIUM. | | NEW AS |
| Y. | FLOOR SHEETING | AISLES ALONG WALLS | N/A | OF MARCH/06 |
| | ROOF ROLL | ROOF | 3 | |
| Z. | | | | NEG 4/14/03 |
| | KICK SHEET | ROOF | 3 | |
| AA. | | | | NEG 4-14-03 |
| | PENETRATION MASTIC | ROOF | 3 | |
| BB. | | | | NEG 4-14-03 |
| | ACOUSTICAL PLASTER | TOPSIDE THROUGH (FOYER) ATTIC | 5 | |
| CC. | CEILING | | | NEG 4-16-03 |

Inspector's Signature:_____ Date:_____

# ASBESTOS SURVEY FORM A
## Reinspection Survey

School Name: SAN PEDRO SR. Loc. Code 8850

Building Name: AUDITORIUM Building Number: 002 BAT

Building Square Feet: 19717 Height of Typical Room:

Inspector: D. BRIX Number: 061206003

| | Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|---|
| A. | 12"x24" STRAIGHT CEILING ~~Plaster Ceilings~~ TILE W/ ADHESIVE | AUDITORIUM ~~All except noted below~~ | | ASSUMED |
| B. | Plaster Walls 12 X 12 STRAIGHT | All except noted below | | |
| C. | WALL ~~Ceilings~~ Tiles W/ ADHESIVE | AUDITORIUM | * 3 ADHESIVE * 3 3+3 | * 1-24-02 1-3-02 NEG. 12-14-94 |
| D. | | | | |
| E. | CAP SHEET | Roof | 3 | NEG 3/25/06 EG |
| F. | PENETRATION MASTIC 12X12 BLACK 12X12 GRAY — MIXED | Roof | 3 | NEG 3/25/06 NEG AS OF 2001. |
| G. | FLOOR TILE VINYL | ORCHESTRA PIT TWO ATTIC | N/A | NEW AS OF MARCH/08 |
| H. | VIBRATION REDUCERS MOISTURE | FAN RMS. (BEHIND STUCCO WALL) | N/A | |
| I. | BARRIER PAPER | EXTERIOR | 3 | NEG. 5-2-08 |
| J. | | | | |
| K. | | | | |
| L. | | | | |

Inspector's Signature: _____ Date: _____

# ASBESTOS SURVEY FORM A
## Reinspection Survey

School Name: SAN PEDRO SR Loc. Code: 8850

Building Name: HOME ECONOMICS Building Number: 003BCJ

Building Square Feet: 18284 Height of Typical Room: 14

Inspector: JESUS C. CARBAJAL Number: 13543

| | Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|---|
| | SAND (ABOVE CEILING TILE) | FAC. DINING RM. | 3 | POS. |
| A. | Plaster Ceilings | ~~All except noted below~~ | | 8-11-99 |
| | SAND. | Hallway | 3+ | 6-6-01. |
| B. | Plaster Walls | ~~All except noted below~~ | 2 | NEG. 12-14-94 |
| SEE LINE K. (C.) | 12"X12" STRAIGHT Ceiling Tiles (WIDE HOLE) | 1ST & 2nd FLOOR HALLWAYS | 3 | NEG. 12-14-94 |
| REMOVED AUG/99 (D.) | PIPE INSULATION | ~~CRAWL SPACE~~ ~~STEAM TUNNEL~~ | ~~3~~ | ~~POS.~~ |
| E. | PIPE INSULATION (REMOVED) | KITCHEN, OFFICE, NORTH HALL, STORE Rm., HOPPER Rm, FAC. DINING ROOM | 3 | POS. 10-8-91 |
| F. | SMOOTH SHEET | ROOF | 3 | POS. 8-25-94 |
| G. | GRAVEL | ROOF | 3 | NEG. 8-25-94 |
| H. | CAPSHEET SMOOTH | ROOF | 3 | POS. 8-25-94 |
| I. | PLASTER CEILING | KITCHEN SERVING KITCHEN STORAGE KITCHEN OFF. R/R. | 3 | NEG. 12-21-98 |
| SEE LINE 2. (J.) | CEILING TILE 12X12 STRAIGHT ADHESIVE (SMALL HOLE) | FAC. DINING, CAFETERIA, DISHWASHING | 3 | NEG. 12-21-98 |
| SEE LINE 6. (K.) | CEILING TILE 12X12 STRAIGHT MASTIC (WIDE HOLE) (WALLS) | 1ST. FLOOR HALLWAY CAFETERIA, | 3 | NEG. 12-4-97 |
| L. | BEIGE PLASTER | KITCHEN | 6 | NEG. 12-4-97 |

Inspector's Signature: JESUS C. Date: 10-06-2000

003BCJ

| | Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|---|
| | | | | 4-16-03 |
| M. | STUCCO WALL 12"X12" DK. BRICK | EXTERIOR | 3 ~~7~~ | POS 12-4-97 |
| REMOVED N. | FLOOR TILE 12"X12" BROWN W/WHITE | DISHWASHING RM | 6 | 8-15-96 POS. (REMOVED BY CREW ON 1-7-97) |
| | | 2nd FLOOR HALLWAY (~~1st FL~~ REMOVED AS OF 9-22-05 HALLWAY & FAC. DINING) | | |
| O. | FLOOR TILE W/MASTIC BROWN | | 3 | POS (MASTIC) 12-4-97 |
| REMOVED P. | BATTLESHIP BROWN | KITCHEN | 3 | NEG. 12-9-96 |
| REMOVED AS OF 9-22-05 Q. | FLOOR SHEETING W/MASTIC YELLOW-WHITE | 2nd FLOOR CLASSROOMS 200, 201, 202, 203 | 3 | NEG 2-4-05 |
| REMOVED R. | SHEET VINYL GREEN/YELLOW | KITCHEN FOOD PREP. | 3 | NEG. 12-9-96 |
| S. | MASTIC FLOOR SHEETING W/MASTIC 12"X12" DK. BRICK | FAC. DINING RM. | | Assumed |
| T. | FLOOR TILE 12"X12" RUST | STORAGE ROOM KITCHEN | 3 | NEG 8-15-96 |
| U. | FLOOR TILE 9"X9" BROWN-N-WHITE | LOCKER ROOM | 3 | NEG. 12-9-96 |
| REMOVED AS OF 9-22-05 V. | FLOOR TILE W/MASTIC 9"X9" TAN-WHITE | ENTRY FOYER AT S/W CORNER OF BLDG. STUDENT DINING* | N/A | REMOVED AS OF MARCH '06 |
| REMOVED W. | FLOOR TILE 9"X9" RED | KITCHEN (PATCH) | N/A | REMOVED |
| REMOVED X. | FLOOR TILE | KITCHEN (PATCH) | N/A | REMOVED |
| Y. | SMOOTH PLASTER WALL | Student D/R Faculty D/R | 3+2 | 6-6-01 NEG 1-3-02 |
| SEE LINE J. Z. | 12X12 STRAIGHT CEILING TILE (SMALL HOLE) CEMENT | GIRLS C/R, PARENT CTR & RMS: (STUDENT & FAC. DINING RMS, 200, 201, 202, 203) PARENT CENTER & RMS. | 3 | NEG 4/16/03 PER JC |
| AA. | BOARD (TRANSOMS) | 200, 201, 202, 203 2ND FL. HALLWAY, FACULTY LOUNGE. | | Assumed |
| BB | PIPE INSULATION & DEBRIS SAND | CEILING SPACE ABOVE HOPPER RM. IN KITCEN-TEMP. OPENING NOW NOT ACC. CEILING SPACE ABOVE HALLWAY IN KITCHEN AREA & ABOVE KITCHEN FREEZER 1ST & 2ND FL. HALLWAYS | | POS. 10-8-91 |
| CC. | PLASTER CEILING | & RMS. 200, 201, 202, 203 | 5 | NEG. 4-16-03 |

Inspector's Signature:_____ Date:_____

# ASBESTOS SURVEY FORM A
## Reinspection Survey

School Name: SAN PEDRO H.S. Loc. Code: 8850

Building Name: HOME ECONOMICS Building Number: 003BCJ

Building Square Feet: 18284 Height of Typical Room:

Inspector: S. PAVLINOVIC Number: 21201

| Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|
| A. Plaster Ceilings | All except noted below | | |
| B. Plaster Walls | All except noted below | | |
| C. Ceiling Tiles (WALLS) | | | |
| D. DASH COAT | EXTERIOR | 7 | BY POINT COUNT NEG. 12-29-04 |
| E. WINDOW PUTTY | EXTERIOR | 3 | POS. 12-29-04 |
| F. | | | |
| G. TAN AND BLUE PATTERN FLOOR SHEETING W/ MASTIC | STUDENT DINING ROOM | N/A | AS OF NEW SEPT. 2005 |
| H. 12" x 12" COTTAGE BLUE FLOOR TILE W/ MASTIC | ROOMS 201, 202, 203 PARENT CENTER | N/A | AS OF NEW SEPT. 2005 |
| I. BLUE FLOOR SHEETING W/ MASTIC | ROOM 200 | N/A | AS OF NEW SEPT. 2005 |
| J. BLUE FLOOR SHEETING | 1ST FL. HALLWAY BY FAC. DINING RM. | N/A | NEW AS OF MARCH/06 |
| K. BLACK FLOOR SHEETING | 1ST. FL. ENTRANCE AT SOUTH/WEST FOYER | N/A | NEW AS OF MARCH/06 |
| L. 9x9 BROWN FLOOR TILE W/ MASTIC | 1ST. FL. STORAGE AREA NEXT TO STAIRWAY IN STUDENT DINING | | SAMPLED 2-12-14 ASSUMED CNS |

Inspector's Signature: Date: 1-28-05

003BCJ

| Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|
| M. DEX-O-TEX (GRAY) | (1ST. FLOOR.) LOWER DECK | 4 | BY POINT COUNT POS. 1-22-13 |
| N. DEX-O-TEX DRYWALL | (UPPER DECK) STUDENT DINING RM., RMS. 200, 201, 202, 203 | 4 | NEG. 1-22-13 NEW RS OF MARCH/08 |
| O. SOFFET 2'x2' SMOOTH | ↓ | N/A ↓ | ↓ |
| P. CEILING TILE 4" BEIGE | | | Sampled 2-12-16 CWS |
| Q. COVE BASE W/ ADHESIVE | FAC. DINING RM. | | ASSUMED |
| R. VIBRATION REDUCERS 2'x2' FISSURE | CEILING SPACE FAN ROOM | | ASSUMED |
| S. CEILING TILE | RMS. 200, 201 W/ STORAGE RM., 202, 203 W/ STORAGE RM. | N/A | NEW RS OF MARCH/08 |
| T. | | | |
| U. | | | |
| V. | | | |
| W. | | | |
| X. | | | |
| Y. | | | |
| Z. | | | |
| AA. | | | |
| BB. | | | |
| CC. | | | |

Inspector's Signature: _____ Date: _____

# ASBESTOS SURVEY FORM A
## Reinspection Survey

School Name: SAN PEDRO SR Loc. Code: 8850

Building Name: ADMIN & CLASSROOM Building Number: 004BDJ

Building Square Feet: 50375 Height of Typical Room: 10'

Inspector: JESUS C. CARBAJAL Number: 13543

| Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|
| A. Plaster Ceilings (SAND) (ABOVE CEILING TILE) | COUNSELING AREA (1ST FLOOR HALL, ROOM 204), MEN FACULTY All except noted below | 2+1 x3 / 2+3 | 5/27/03 4/16/03 POS. 12-14-94 ✓ 1-3-02 1-24-02 |
| B. Plaster Walls (SAND) | 2nd FLOOR Hall ROOMS 2, 212, Hall All except noted below | 5+1/+1 / 3 | NEG 12-13-94 6601 |
| C. Ceiling Tiles 12"x12" STRAIGHT. STRAIGHT LINE | 1ST FLOOR HALL, III THROU-OUT | 2+ / 1 | NEG. 12-14-94 66-0 |
| D. CEILING TILE MASTIC ST-LINE CEILING | III, 2nd FLOOR | 2+ / 3 | NEG. 12-3-97 |
| E. TILE ADHESIVE 12"x12" RANDOM | (RM. 1) (RM. 2) CRAFT & PRINT SHOP | 3 NEG / 3 | 4-16-03 M.G. 12-3-97 |
| F. CEILING TILE W/ ADHESIVE | COUNCELOR OFFICE | 3+3 NEG / 3 | 4-16-03 / 3/02 12-14-94 M.G. |
| REMOVED G. BOILER INSULATION | BOILER ROOM | 3 | POS. 9-3-88 |
| H. PIPE INSULATION | REMOVED JAN/92 DEAN'S OFFICE; KILN DARK ROOM; BOILER ROOM | 3 | POS. 9-3-88 ✓ |
| I. | AUG/99, MAR/00, MAY/07 STORAGE ROOM & SUPPLY ROOM; ROOMS 1.2 | 3 | POS. |
| J. | REMOVED SEPT./99 CRAWL SPACE | 3 | POS. |
| K. SEALING ROPE | ~~ATTIC~~ HEALTH OFFICE, BOILER ROOM. | 3 | POS. |
| REMOVED L. BTWN. BOILER SECTIONS | (WEST BOILER ONLY) | 3 | POS. 3-21-00 |

Inspector's Signature: Jesus C. Date: 10-06-2000

004 BDJ

DASH COAT

| | Type of Suspect Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|---|
| M. | ON CONCRETE<br>9x9 BROWN | EXTERIOR WALL | 3 | POS. 5-2-08 |
| N. | FLOOR TILE W/MASTIC | Rm. 1 — PAR BARN STORAGE Rm. THRU DARK Rm. | SAME TILE AS ON LINE 2 ON PAGE ONE | 4-16-08<br>POS. 1-26-96 |
| O. | TACK BOARD<br>ADHESIVE<br>12X12 YELLOW, 12X12 GRAY, 12X12 LT. GRAY | NORTH WALL IN COUNSELING COMPLEX | 3 | 1-20-14<br>NEG. |
| P. | FLOOR TILE<br>4" GRAY | RMS: 115, 117 | N.S | NEW 2014 |
| Q. | COVE BASE<br>2X4 FISSURE | ↓ | ↓ | ↓ |
| R. | CEILING TILE | ↓ | ↓ | ↓ |
| S. | | | | |
| T. | | | | |
| U. | | | | |
| V. | | | | |
| W. | | | | |
| X. | | | | |
| Y. | | | | |
| Z. | | | | |
| AA. | | | | |
| BB. | | | | |

Inspector's Signature: _____ Date: _____

004BDJ

| | Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|---|
| M. | 12"x12" BEIGE FLOOR TILE (GREEN CARPET) | ROOM 215 | 3 | NEG. 7-26-00 |
| N. | CARPET-GLUE BROWN (REMOVED) | LIBRARY W/OFFICE | 3 | NEG. 12-3-97 |
| | | 1ST-2nd FLOOR HALLS CONFIRM, ROOM 210. FINANCE OFFICE | | NEG 4/16/03 |
| O. | BATTLESHIP FLOOR BROWN | ASSIST. PPAL. N. HALF OF CSERVS. HEALTH OFFICE | 5 | |
| P. | BATTLESHIP FLOOR RED | ROOM 112 | 3 | NEG. 7-24-97 |
| | | | 6 | NEG. 7-26-00 |
| Q. | BATTLESHIP FLOOR BROWN | ROOMS 210, 215 | 3 | 1-26-96 |
| R. | BATTLESHIP FLOOR | COPY ROOM HEALTH OFFICE | N/A | REMOVED |
| S. | | | | |
| T. | 12"x12" OFF WHITE FLOOR TILE w/MASTIC | ROOM 212 | N/A | REMOVED |
| U. | 12x12 TAN; 12x12 BROWN — MIXED FLOOR TILE w/MASTIC | COUNCELORS OFF. | 6 | POS 4-16-03 (TILE & MASTIC NOT) |
| V. | | | | |
| W. | 9"x9" TAN. FLOOR TILE w/MASTIC | COUNCELORS OFF. | 3+3 | POS 4/16/03 RB (TILE & MASTIC NOT) |
| X. | 9"x9" DK. BROWN FLOOR TILE w/MASTIC | DEANS OFFICE HALL 1ST FLOOR | N/A | REMOVED |
| Y. | 9"x9" YELLOW FLOOR TILE w/MASTIC | Rm. 2 w/ STORAGE RM. | 3 | POS 4/16/03 (TILE & MASTIC NOT) |
| Z. | 9"x9" BROWN-WHITE FLOOR TILE w/MASTIC | Rm. 1 w/ DARK ROOM | 3+3 | 4-16-03 POS. 1-26-96 |
| | | | +6 | 1-24-02 |
| AA. | STUCCO WALL SMOOTH | EXTERIOR | 1 | 12-12-94 & POS-POINT COUNT |
| | | MEN'S LOUNGE | +1 | 6-6-01 |
| BB. | PLASTER walls WINDOW | DEAN'S OFFICE | 2 | NEG 12-13-94 |
| | | | 2+ | 6-6-01 BY POINT |
| CC. | PUTTY | Library | 3 | NEG COUNT |

Inspector's Signature: Jesus C Date: 10-26-2000

# ASBESTOS SURVEY FORM A
## Reinspection Survey

School Name: SAN PEDRO HIGH SCHOOL Loc. Code: 8850

Building Name: ADMIN & CLASSROOM Building Number: 004BDJ

Building Square Feet: 50,375 Height of Typical Room: 10'

Inspector: JESUS C. CARBAJAL Number: 13543

| Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|
| A. Plaster Ceilings | All except noted below | | |
| B. Plaster Walls | All except noted below | | |
| C. Ceiling Tiles | | | |
| D. CEMENT BOARDS | 1st & 2nd FLOOR ROOMS, (SEE SURVEILLANCE) BASEMENT RMS. 1, 2 | | Assumed ✓ |
| E. 9"x9" RED/W/WHITE FLOOL TILE w/MASTIC (REMOVED AS OF 9-05) | 1st FLOOR HALL NORTH EXIT & | 3 | NEG 4-16-03, |
| F. 9"x9" RED-BROWN W/WHITE FLOOL TILE w/MASTIC (REMOVED AS OF 9-22-04) | PRINCIPAL'S OFFICE | N/A | RDS 4-16-03 REMOVED |
| G. 9x9 MD. BROWN W/WHITE FLOOLTILE (REMOVED AS OF 9-22-05) | MAIN OFFICE - LOBBY | N/A | |
| H. CEMENT PIPE & VENT | CEILING SPACE IN BOILER RM. & INSIDE CHIMNEY IN BOILER RM. | | Assumed ✓ |
| I. SAND PLASTER WALLS | KILN ROOM RM. 2 | 3 | NEG. 2-24-03 D.C. |
| J. CEILING PLASTER | 2ND. FLOOR BREEZEWAY | 3 | NEG. 1-22-04 |
| K. BROWN FLOOR SHEETING (REMOVED AS OF 9/2005) | ROOM 205 | 3 | 6/9/05 - NEG. |
| L. TAN AND BLUE PATTERN FLOOR SHEETING W/MASTIC | 1ST FLOOR HALLWAY 2ND FLOOR HALLWAY | N/A | NEW AS OF 9/2005 |

Inspector's Signature: Jesus Carbajal Date: MAR 11 2002

0048DJ

| | Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|---|
| M. | 12"x12" BLUE FLOOR TILE W/ MASTIC | 1ST FLOOR - HEALTH OFF., CAREER CTR, BOOK ROOM, MENS FAC. LOUNGE ACROSS FROM MAIN OFFICE, FINANCE OFFICE, MAGNET OFF., ATTENDANCE OFFICE, SUPPLY ROOM INSIDE ATTENDANCE OFFICE | N/A | NEW AS OF 9/05 |
| N. | | | | |
| O. | | 2ND FLOOR - Rooms 204, 205, 206, 207, 208, 209, 210, 212, 213 ATHENIAN VILLAGE | | |
| P. | | | | |
| Q. | | | | |
| R. | BLACK NON-SKID FLOOR COVERING W/ MASTIC | 1ST FLOOR - SOUTH SIDE ENTRY FOYER | N/A | NEW AS OF 9/05 |
| S. | TAN 4" BLACK COVEBASE W/ADHESIVE TAN FLOOR SHEETING | Rm. 100 | NONE | ASSUMED ? |
| T. | W/ ADHESIVE | 1ST FLOOR - PRIN. OFFICE MAIN OFFICE, A.P. OFFICE (2) MAIN OFFICE SUPPLY ROOM, | N/A | NEW AS OF 9-05 |
| U. | | DEAN OF STUDENTS OFFICE, | | |
| V. | BROWN FLOOR SHEETING | TWO OFFICES INSIDE ATTENDANCE OFFICE, Rm. 1, Rm. 2 | | |
| W. | W/ MASTIC | SAFE ROOM IN MAIN OFFICE | | ASSUMED ✓ |
| X. (REMOVED) | BOILER MUD | ON BOILER #2 IN BASEMENT | 1 | POS. 3-8-06 |
| Y. | ROOF ROOL PENATRATION | ROOF | 3 | NEG 4/14/03 |
| Z. | MASTIC | ROOF | 3 | NEG 4/14/03 |
| AA. | KICKSHEET | ROOF | 3 | NEG 4/14/03 |
| BB. | 12X12 COTTAGE TAN, 12X12 WHITE, 12X12 BLUE FLOOR TILE W/MASTIC 9X9 RED | MIXED Rm. 114 | | ASSUMED |
| CC. | FLOOR TILE W/MASTIC | Rms. 211, 213 | 1. | ASSUMED ✓ |

Inspector's Signature: _____ Date: _____

ASBESTOS SURVEY FORM A
Re-Inspection Survey

School Name: SAN PEDRO H.S. Loc. Code: 9850

Building Name: ADMIN. & CLASSROOM Building Number: 004 BDJ

Building Square Feet: 50375 Height of Typical Room:

Inspector: S. PAVLINOVIC Number: 21201

| Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|
| A. Plaster Ceilings | All except noted below | | |
| B. Plaster Walls | All except noted below | | |
| C. Ceilings Tiles VIBRATION. | ATTIC FAN RM. ABOVE GIRLS R/R, ATTIC FAN RM. ABOVE BOYS R/R | | |
| D. REDUCERS | KILN IN RM. 2 | | ASSUMED ✓ |
| E. CEMENT BOARD VIBRATION | MAIN OFFICE STORAGE RM., COUNSELORS OFFICE STORAGE RM., MENS R/R, FINANCE OFFICE | N/A | NEW 2007 |
| F. REDUCERS | | | |
| G. FLOOR SHEETING BLACK W/MASTIC | ON STEPS IN FIRST FLOOR HALLWAY | | ASSUMED ✓ |
| H. SOFFITS DRYWALL | 1ST. FL.: ATTEN. OFFICE, BOOK RM., ASST. PRIN. OFFICE, DEANS OFFICE, RM. 100, CAREER CENTER, FINANCE OFFICE, MAGNET OFFICE | | NEW 2007 |
| I. ↓ | 2ND. FL.: RMS. 205, 206, 207, 208, 209, 210, 211, 212, 213, 215, 204, LIBRARY STORAGE RM. | | |
| J. ↓ | | | ↓ |
| 2X2 FISSURE K. CEILING TILE 12X12 BROWN | ↑ SAME AS ABOVE ↑ CENTER STAIRWAY LANDING BETWEEN 1ST. & 2ND FLOOR | | NEW 2007 |
| L. FLOOR TILE W/MASTIC | | | ASSUMED ✓ |

Inspector's Signature: [signature] Date: 3-17-08

# ASBESTOS SURVEY FORM A
## Reinspection Survey

School Name: SAN PEDRO HS. Loc. Code: 8850

Building Name: CLASSROOM BLDG. # 1 Building Number: 005 BCJ

Building Square Feet: 26609 Height of Typical Room:

Inspector: S. PAVLINOVIC Number: 21201

| Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|
| A. Plaster Ceilings | All except noted below | | |
| B. Plaster Walls | All except noted below | | |
| C. Ceiling Tiles 12X12 BLUE | 2ND. FL.: RM. 231, 220, 221, 222, 223, 224, STORAGE RM NEXT TO RM. 230 | N/A | NEG AS OF MARCH/06 |
| D. FLOOR TILE BLACK | SOUTH STAIRWAY LANDING | N/A | NEG AS OF MARCH/06 |
| E. FLOOR SHEETING KICKSHEET | ROOF | 3 | NEG 4-14-03 |
| F. ROOF ROLL | ROOF | 3 | NEG 4-14-03 |
| G. PENETRATION MASTIC | ROOF | 3 | NEG 4-14-03 |
| H. | TWO ATTIC FAN ROOMS | | |
| I. VIBRATION REDUCER DRYWALL | 1ST FL.: 120, 121, 122, 123, 124, 125, 126 | | ASSUMED NEW 2007 WITH H/C PROJECT |
| J. SOFFIT | 2ND FL: 220, 221, 222, 223, 224, 225, 226, 227, 228A, 228B, 229, 230W/STORAGE RM., 231 | | |
| K. 2X2' FISSURE | ↑ SAME AS ABOVE ↑ | | |
| L. CEILING TILE | | | |

Inspector's Signature: J Pavl Date: 3-9-06

005 BCJ

| | Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|---|
| | TAN & BLUE — MIXED | | | NEW AS OF MARCH/08 |
| M. | FLOOR SHEETING 12X12 COTTAGE TAN | 2ND. FL. HALLWAY | 3+3 | NEG. 3-10-08 |
| N. | FLOOR TILE | RM. 228B | N/A | NEW AS OF MARCH/08 |
| O. | DEBRIS | CRAWL SPACE | 3 | NEG. 3-6-08 |
| | PIPE (REMOVED) | 1ST. FLOOR GIRLS R/R IN WALL - TEMPORARY OPENING FOR RE PIPE | | |
| P. | INSULATION DEBRIS (FLOOR) | | 1 | POS. 3-6-08 SEE RESULTS |
| Q. | LEVELING COMPOUND 12X12 BROWN, 12X12 LT. BROWN — MIXED | RMS. 228B, 229 (THIS TILE INSTALLED IN 2005) | 3+3 | POS. 3-10-08 SEE RESULTS |
| R. | FLOOR TILE W/MASTIC (FLOOR) | RM. 230 | 3+3 | POS. 3-10-08 (MASTIC NOT) SEE RESULTS |
| S. | LEVELING COMPOUND | RM. 230 | 1 | POS. 3-10-08 |
| T. | | | | |
| U. | | | | |
| V. | | | | |
| W. | | | | |
| X. | | | | |
| Y. | | | | |
| Z. | | | | |
| AA. | | | | |
| BB. | | | | |
| CC. | | | | |

Inspector's Signature: _____ Date: _____

# ASBESTOS SURVEY FORM A
## Reinspection Survey

School Name: SAN PEDRO SR Loc. Code: 8850

Building Name: CLASSROOM BLDG #1 Building Number: 005BCJ

Building Square Feet: 26609 Height of Typical Room: 10'

Inspector: JESUS C. CARBAJAL Number: 13543

| Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|
| A. SAND Plaster Ceilings | All except noted below | 3 +4 | NEG. 12-14-94 1-3-02 |
| B. SAND Plaster Walls | All except noted below | 7 | NEG 10-10-91 |
| C. 12"x12" RANDOM Ceiling Tiles | HALLWAY ROOM 230 | 3 | NEG 12-3-97 |
| D. RANDOM C.T. MASTIC 12"x12" RANDOM | HALLWAY ROOM 230 | 3 | NEG. 12-3-97 |
| E. CEILING TILE RANDOM C.T. | ROOM 126 | 3 | NEG. 12-3-97 |
| F. MASTIC 12"x12" STRAIGHT | ROOM 126 | 3 | NEG 12-3-97 |
| G. CEILING TILE STRAIGHT C.T. | HALLWAY | 3 | NEG 12-3-97 |
| H. MASTIC | HALLWAY | 3 | NEG 12-3-97 |
| REMOVED I. PIPE INSULATION | REMOVED SEPT/99 CRAWL SPACE 1ST. FL.: PIPE CHASE | 3 | NO sample pos. |
| J. CEMENT PIPE & VENT ELBOWS | 2ND. FL.: PIPE CHASE HOT WATER HTR. RM | NO sample | Yes stripped Assumed |
| REMOVED K. PIPE INSULATION | NEXT TO HOPPER 1ST FLOOR (TRANSOMS) | 3 | pos. |
| L. CEMENT BOARD | ALL CLASSROOMS | | Assumed |

Inspector's Signature: Jesus C. Date: 10-06-2000

005BCJ

| | Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|---|
| | 12"x12" TAN | | | (TILE & MASTIC HOT) |
| M. | FLOOR TILE w/MASTIC BROWN | 1ST FL.: RMS. 120, 121, 122, 123, 124, 125, 126 2ND. FL.: RMS. 227, 228A, 228B, 229 | 3 | POS. 12-3-97 |
| | | 2ND. FL.: STORAGE RM. NEXT TO HOOPER RM., STORAGE RM. NEXT TO RM. 230 | | |
| N. | BATTLESHIP FLOOR 9"x9" BROWN-WHITE | (HALLWAY REMOVED) ROOMS: | 3 | NEG. 7-14-94 |
| | | REMOVED | | (TILE & MASTIC HOT) |
| O. | FLOOR TILE w/MASTIC | 226, (231 STORAGE) -PLATFORM- | 3 | POS. 12-3-99 |
| | | | | 8-17-94 |
| P. (REMOVED AS OF 9/05) | LINOLEUM BROWN | ROOM 230 | 3 | NEG. 5-24-94 |
| Q. (REMOVED BY CREW ON 9-13-96) | BATTLESHIP FLOOR 12"x12" BEIGE | ROOM 230 | 3 | NEG 2-28-96 |
| R. | FLOOR TILE | ROOM 230 | 3 | NEG-TILE 2-28-96 POS-MASTIC |
| S. | | | | |
| | 12"x12" BROWN-WHITE (MIXED) 12x12 TAN | | | (TILE & MASTIC HOT) |
| T. | FLOOR TILE w/MASTIC | 1ST FLOOR HALLWAY | 3+3 | POS. 3-10-08 |
| | | | 2 | NEGATIVE BY POINT COUNT 6-16-01 |
| U. | STUCCO WALL | EXTERIOR | 1 | 12-12-94 |
| | | | | 6-6-01 |
| V. | WINDOW PUTTY | EXT | 3 | NEG BY POINT COUNT |
| (REMOVED AS OF 9/05) W. | MD. BROWN FLOOR SHEETING w/MASTIC (WALLS) | 2ND. FL. ROOMS: 220, 221, 222, 223, 224, 225 | N/A | REMOVED BY POINT COUNT |
| X. | DASH COAT | EXTERIOR | 7 | NEG. 12-29-04 |
| Y. | | | | |
| (REMOVED) (Z) | MD. BROWN FLOOR SHEETING w/MASTIC | 1ST FLOOR: HALL (PATCH) | N/A | REMOVED AS OF MARCH/08 |
| AA. | 9"x9" DK. BROWN FLOOR TILE w/MASTIC | STORAGE ROOM INSIDE ROOM # 127 (1ST FLOOR) | | sampled 2-8-16 CUS ASSUMED |
| | 12"x12" BEIGE | 1ST FLOOR | | (TILE & MASTIC HOT) |
| BB. | FLOOR TILE w/MASTIC 12"x12" GRAY & 12"x12" BLUE | ROOM #127 | 3+3 | POS. 3-10-08 |
| (REMOVED) (CC.) | FLOOR TILE w/MASTIC, MIXED | SOUTH STAIRWAY LANDING | N/A | REMOVED AS OF MARCH/06 |

Inspector's Signature: CUS C Date: 10-06-2000

# ASBESTOS SURVEY FORM A
## Reinspection Survey

School Name: SAN PEDRO SR Loc. Code: 8850

Building Name: P. E. BLDG. Building Number: 006CBJ

Building Square Feet: 22974 Height of Typical Room: 16'

Inspector: JESUS C. CARBAJAL Number: 13543.

| Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|
| A. SMOOTH Plaster Ceilings | OFF BOYS R-R. GIRLS LOCKER RM All except noted below BOYS R-R. | 3 | SUFFICIENT SAMPLES (GB) NEG. 12-14-94 |
| B. SMOOTH Plaster Walls | GIRLS LOCKER RM All except noted below | 3 | SUFFICIENT SAMPLES (GB) NEG 12-14-94 |
| C. 12"x12" STRAIGHT Ceiling Tiles w/ ADHESIVE | Weight Rm. BOYS COACH OFFICE | 2+ 1 3 | (ADHESIVE) 6-6-01 NEG. 12-14-94 |
| D. CEILING TILE SAND | BASKETBALL COURT BOYS LOCKER | 7 | NEG 7-16-93 / SUFFICIENT SAMPLES (GB) |
| E. PLASTER CEILING SAND | HOPPER RM BOYS LOCKER, HOPPER BOYS-GIRLS OFFICES. | 3 | NEG 12-19-94 |
| F. PLASTER WALL ACOUSTICAL | Hall, GIRLS CORRECTIVE GIRLS CORRECTIVE RM BOYS-GIRLS | 7 | NEG 12-19-94 |
| G. PLASTER CEILING | COACHES OFFICES | 3 2 | POS. 12-14-94 6-6-01 |
| H. STUCCO WALL | EXTERIOR (REMOVED 2006 ATTIC (NORTH-SOUTH), BOYS WEIGHT RM., GYM, | 1 | POS. 12-14-94 |
| I. PIPE INSULATION 9"x9" GRAY | EQUIP. STORAGE, BOYS LOCKER RM. BOYS | 3 | POS. REMOVED AS OF MARCH/06 |
| (J.) FLOOR TILE w/MASTIC 9"x9" OFF WHITE/YELLOW | COACHES OFFICE GIRLS: | N/A | REMOVED AS OF MARCH/06 |
| REMOVED (K.) FLOOR TILE w/MASTIC 9"x9" BROWN W/WHITE | COACHES OFFICE GIRLS: COACHES OFFICE | N/A | REMOVED AS OF MARCH/06 |
| (L) FLOOR TILE w/MASTIC | BOYS: STORAGE NEXT TO EQUIP. ROOM | N/A | REMOVED AS OF MARCH/06 |

Inspector's Signature: JESUS C. Date: 10-06-2006

006 CBJ

| | Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|---|
| M. | Not Pending 9"x9" DK. BROWN FLOOR TILE W/MASTIC 9"x9" BROWN (REMOVED) | FOOTBALL EQUIP. ROOM. | N/A | REMOVED AS OF MARCH/06 |
| N. | FLOOR TILE W/MASTIC BLACK FELT | FOOTBALL EQUIP. ROOM (STORAGE) (UNDER WOOD FLOOR) | N/A | REMOVED AS OF MARCH/06 |
| O. | ADHESIVE FLOOR | MAIN GYM FLOOR | 1 | POS. 7-15-98 |
| P. | | | | |
| Q. | HVAC vent Tape 12x12 YELLOW 12x12 GRAY — MIXED | BOYS LOCKER RM., Basketball court 3 — BOYS COACHES OFFICE, 3 — GIRLS COACHES OFFICE, FOOTBALL EQUIP RMS, 2 — GIRLS WORKOUT RMS. | 3 3 | NEG. 2-7-07 NEG 1-24-02 |
| R. | FLOOR TILE | | N/A | NEW AS OF MARCH/06 |
| S. | MASTIC | 2 — GIRLS WORKOUT RM. BOYS COACHES OFFICE, 3 — GIRLS COACHES OFFICE, FOTBALL EQUIP. RMS; | | NEW AS |
| T. | COVEBASE | | N/A | OF MARCH/06 |
| U. | ROOF ROLL | ROOF | 3 | NEG 4-15-03 |
| V. | KICKSHEET | ROOF | 3 | NEG 4-15-03 |
| W. | PENETRATION MASTIC | ROOF | 3 | NEG 4-15-03 NEG 3/24/06 RB |
| X. | Capsheet | Roof | 3 | pos by PC |
| Y. | PENETRATION MASTIC DASHCOAT | Roof | 3 | BY POINT COUNT |
| Z. | ON CONCRETE | EXTERIOR WALL | 3 | NEG. 5-2-08 |
| AA. | DRYWALL NAILS W/JCT 4" TAN | SEPERATING BOYS LOCKER RM. FROM BOYS WEIGHT RM. | N/A | NEW SEPT/08 |
| BB. | COVEBASE RUBBER | WEIGHT RM. | N/A | NEW SEPT/08 |
| CC. | FLOOR COVERING | WEIGHT RM. | N/A | NEW SEPT/08 |

**Inspector's Signature:** _____ **Date:** _____

# ASBESTOS SURVEY FORM A
## Reinspection Survey

School Name: SAN PEDRO SR Loc. Code: 8850

Building Name: GIRLS GYM Building Number: 010DAP

Building Square Feet: 5961 Height of Typical Room: 20

Inspector: JESUS C. CARBAJAL Number: 13543

| | Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|---|
| A. | SAND Plaster Ceilings | STORAGE RM., JANITORS CLOSET All except noted below | 3 | 6-6-01 Neg 12-3-97 |
| B. | SAND Plaster Walls | BOYS R/R, BASKETBALL STORAGE RM., GIRLS R/R, All except noted below | 3/4 | NEG 12-12-94 |
| C. | 12"X12" RANDOM Ceiling Tiles W/ADHESIVE | GYRLS GYM | 3/3 | POS. 12-3-97 (RANDOM HOT) 12-3-97 |
| D. | FIFE INSULATION 12X12 TAN | FAN. ROOM ATTIC (Removed June '06) | 3 | POS. |
| E. | FLOOR TILE 9"x9" TAN | GIRLS R/R | N/A | NEG 2003 |
| F. | FLOOR TILE (REMOVED 1-6-03) | GIRLS RESTROOM | 3 | POS 3-6-02 |
| G. | STUCCO WALL SAND 1 | EXTERIOR | 3 1 | NEG 12-8-97 NEG. 12-12-94 |
| H. | PLASTER CEILING DRYWALL CEILING | FAN RM. | Sampled | ASSUMED |
| I. | w/ TAPE & MUD. | S-W STORAGE RM, BOYS-GIRLS R-R. -ABOVE C.T- | 3+3 | 6-6-01 Neg BY POINT COUNT |
| J. | WINDOW PUTTY SAND | EXT | 3 | 6-6-01 BY Neg POINT COUNT |
| K. | PLASTER wall DUCT SEAM | FAN ROOM | Sampled 1 | Assumed NEG. 12-12-94 |
| L. | SEAL TAPE | FAN ROOM | Sampled | Assumed |

Inspector's Signature: Jesus C. Date: 10-06-2000

C10DAP

| | Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|---|
| M. | 9x9 BROWN w/MASTIC 12x12 RANDOM | FOYER/EQUIPMENT STORAGE ROOM | 3 | POS (TILE & MASTIC) 3-6-02 Stapled |
| N. | WALL TILE w/ADHESIVE | GYM | | ASSUMED |
| O. | STUCCO CEILING | PORTICO | | ASSUMED |
| P. | ROLLED ROOFING | ROOF | 3 | NEG. 9-24-10 |
| Q. | PENETRATION MASTIC | ROOF | 3 | NEG. 9-24-10 |
| R. | | | | |
| S. | | | | |
| T. | | | | |
| U. | | | | |
| V. | | | | |
| W. | | | | |
| X. | | | | |
| Y. | | | | |
| Z. | | | | |
| AA. | | | | |
| BB. | | | | |
| CC. | | | | |

Inspector's Signature: _____ Date: _____

# ASBESTOS SURVEY FORM A
## Reinspection Survey

School Name: SAN PEDRO SR Loc. Code: 8850

Building Name: CLASSROOM BLDG. # 2 Building Number: 013BCP

Building Square Feet: 45979 Height of Typical Room: 10'

Inspector: JESUS C. CARBAJAL Number: 13543

| Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|
| A. SAND Plaster Ceilings | 1ST FLOOR Hallway | 3 | NEG. 12-3-97 6-6-01 |
| | ~~All except noted below~~ RMS. 144, M7, 151, 1ST FL. HALLWAY, 2ND. FL. HALLWAY | 3+ | 6-6-01 |
| B. SAND Plaster Walls | ~~All except noted below~~ HALLWAY, 251, 247, 242 | 9 3+3 | NEG 12-3-97 6-6-01 |
| C. 12"x12" RANDOM Ceiling Tiles w/ ADHESIVE (ADD JCT HERE) | RMS 150, 151, 153 | 6+6 | NEG 12-3-97 |
| D. DRYWALL CEILING | RMS 150, 151, 153, BOYS R/R, HALLWAY | 6 | NEG. 12-3-97 |
| E. | | - | |
| F. PIPE INSULATION | ATTIC FAN ROOM REMOVED AS OF MARCH/07 CEILING SPACE | 3 | POS. 6-26-01 S-2-08 |
| G. STUCCO WALL 9'x9' LT. BROWN | EXTERIOR | +1 2+3 | POS. 12-12-97 |
| REMOVED (H.) FLOOR TILE w/MASTIC 12"x12" BROWN-YELLOW | ROOM 244B | 3 | POS. 12-3-97 |
| REMOVED (I.) FLOOR TILE w/MASTIC 9"x9" GRAY | Hallway | 3 | NEG-TILE 12-3-97 POS-MASTIC |
| Tested See last sheet J. FLOOR TILE w/MASTIC 9"x9" TAN-BLACK-WHITE | FAC. ROOM RMS. 241-A, 242-A, 243 | | Assumed Positive |
| Removed 7/14/00 K. FLOOR TILE 9"x9" TAN- | ROOM 246 & 246A | N/A | REMOVED BY CONTRACTOR ON 7-21-2000 |
| L. FLOOR TILE w/MASTIC | FAC. ROOM STORAGE, ROOMS: 241, 242, 245-A, 247 | | Assumed |

Inspector's Signature: JESUS C. Date: 10-06-2000

013 BCP

| | Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|---|
| | 9"x9" LT. BROWN | FAC. RM-WOMENS 12-2, | | (TILE & MASTIC NOT) |
| M. | FLOOR TILE w/MASTIC | RMS: 244, 245, 249 | 3 | POS. 12-3-97 |
| | 12"x12" BROWN | 1ST & 2nd FLOOR HALLWAYS. | | NEG. (TILE) 6-19-05" |
| REMOVED AS OF 3/06 N. | FLOOR TILE w/MASTIC | RMS: 141, 142, 143, 144 145, 146, 147, 148, 149 151, 153, 248, 251, 251-A,B, 253 * BOY'S RR GIRL'S RR | * 3 | POS. (MASTIC) 6-19-05" |
| O. | SAND | | | 10-16-00 |
| P. | PLASTER CEILING | RETURN AIR PLENUM (FAN RM) | 3 | NEG |
| Q: | | | | |
| R. | DRY WALL WALL W/COMPOUND | Rm 149 STORAGE | 3+ 3 | 6-6-01 NEG BY POINT COUNT |
| S. | WINDOW PUTTY | EXTERIOR | 3 | 6-6-01 NEG BY POINT COUNT |
| T. | SAND PLASTER CEILING | 1ST FLOOR HOPPER Rm. & 2ND. HOPPER ROOM | | 2-8-16 Sampled ASSUMED |
| U. | SAND PLASTER WALL | 2ND FL. FAN ROOM | | 2-8-16 Sampled ASSUMED |
| REMOVED V. | DUCT SEAM SEAL TAPE | 2ND FL. FAN ROOM ON DUCTWORK EXHAUST BOOTH IN RM: 244 | N/A | REMOVED AS OF MARCH/07 |
| W. | CEMENT BOARD | | | ASSUMED |
| X. | BLUE SHEET & BEIGE SHEET — MIXED FLOOR SHEETING BEIGE | 1ST. & 2ND. FLOOR HALLWAYS | N/A | NEW AS OF MARCH/06 |
| Y. | FLOOR SHEETING | 1ST. FL.: RMS. 141, 142, 143, 144, 145, 146, 147, 148, 149, 151, 153 | | NEW AS OF MARCH/06 |
| Z. | ↓ | 2ND. FL.: RMS. 244, 248, 249A, 251, 251A, 251B, 253, BOYS R/R, GIRLS R/R | | ↓ |
| AA. | ROOF ROLL | ROOF | 3 | NEG 4-14-03 |
| BB. | PENETRATION MASTIC | ROOF | 3 | NEG 4-14-03 |
| CC. | VIBRATION REDUCERS | ATTIC FAN RM | N/A | NEW AS OF MARCH/07 |

Inspector's Signature: _____ Date: _____

# ASBESTOS SURVEY FORM A
## Re-Inspection Survey

School Name: SAN PEDRO H.S. Loc. Code: 8350

Building Name: CLASSROOM BLDG. #2 Building Number: 013BCP

Building Square Feet: 45979 Height of Typical Room:

Inspector: S. PAVLINOVIC Number: 21201

| Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|
| A. Plaster Ceilings | All except noted below | | |
| B. Plaster Walls | All except noted below | | |
| C. Ceilings Tiles 12x12 COTTAGE TAN | | | NEW |
| D. FLOOR TILE | RMS. 246, 246A | N/A | 2000 |
| E. BLACK CARPET | RM. 251A | N/A | NEW 2006 |
| F. ROOFING DEBRIS DASHCOAT | 2ND. FLOOR CEILING SPACE | 3/3 | BY POINT COUNT NEG. 9-23-09 ~~POS.~~ 5-2-08 |
| G. ON CONCRETE MOISTURE | EXTERIOR WALL (BEHIND STUCCO WALL) | 3 | POS. 5-2-08 |
| H. BARRIER PAPER 9x9 BROWN floor | EXTERIOR | 3 | NEG. 5-2-08 POS. |
| I. TILE W/MASTIC 9x9 TAN floor | FACULTY WORK ROOM ROOMS 242 & 243 | 3 | 12-3-14 POS |
| J. TILE W/MASTIC SAND PLASTER | STORAGE ROOMS 241 & 242 | 3 | 12-3-14 |
| K. WALLS | FAN ROOM | 3 | 12-3-14 NEG |
| L. | | | |

Inspector's Signature: [signature] Date: 3-17-08

# ASBESTOS SURVEY FORM A
## Reinspection Survey

School Name: SAN PEDRO SR Loc. Code: 8850

Building Name: FOOD SERVICE Building Number: 014DAP

Building Square Feet: 459 Height of Typical Room: 10'

Inspector: JESUS C. CARBAJAL Number: 13543

| Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|
| A. Plaster Ceilings | All except noted below | | - |
| B. SAND. Plaster Walls | All except noted below | 3 | NEG 12-28-98 |
| C. 12"x12" RANDOM Ceiling Tiles | MAIN AREA | 3 | NEG 12-28-98 |
| D. RANDOM C.T. ADHESIVE | MAIN AREA | 3 | NEG 12-28-98 BY POINT COUNT 6-10-09 |
| E. STUCCO WALL | EXTERIOR | 3 | POS. 7-21-97 |
| F. DRYWALL CEILING | MAIN AREA | 3 | NEG. 12-28-98 |
| G. | | | |
| H. | | | |
| I. | | | |
| J. | | | |
| K. | | | |
| L. | | | |

Inspector's Signature: JESUS C. Date: 10-06-2000

ROOM: 165 IS NOW ROOM 166
ROOM: 166 IS NOW ROOM 167 & 168
AS OF 8-22-2002

# ASBESTOS SURVEY FORM A
## Reinspection Survey

School Name: SAN PEDRO SR Loc. Code: 8850

Building Name: SHOP BLDG. Building Number: 015DCS

Building Square Feet: 14634 Height of Typical Room: 18'

Inspector: JESUS C. CARBAJAL Number: 13543

| Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|
| A. SAND Plaster Ceilings | WATER HTR RM. Hopper RM. All except noted below | 3 | 5-6-01 ! NEG |
| B. SAND Plaster Walls | 165, 166 SM. RESTRM All except noted below | 3 +2 | 1-702 6-6-01 NEG |
| C. 12"X12" RANDOM Ceiling Tiles | 173 RESTROOMS | 3/3 | NEG 12-03-97 |
| D. CEILING TILE ADHESIVE DRYWALL CEILING | 1ST. FL.: RM. 173 AND RESTROOMS, 2ND. FLOOR RESTROOMS (ABOVE CEILING TILE) | 6 3 | POS 12-03-97 POS. " , (SECT NOT) |
| E. W/MUD & TAPE | RM 173, RESTROOMS | 3 | 12-3-97 |
| F. PLASTER SOFFIT (REMOVED MARCH/98) | ROOM 173 ATTIC (ACCESS IN HOPPER) | 3 | NEG 12-03-97 |
| G. PIPE INSULATION | P.M. OFFICE, GARAGE, WATER HTR RM. ROOM 171 & 166, ROOM 165 | 3 | POS |
| H. CEMENT | ROOM 116, 168 ROOM 165, BOOTHS | | |
| I. BOARD 12"X12" BROWN | ALONG WEST WALL Room 166 PLANT MGR'S | | 2 & 4 Samples Assumed |
| J. FLOOR TILE w/MASTIC | OFFICE | | Samples Assumed |
| K. SMOOTSHEET | ROOF | 3 | POS. 8-25-94 |
| L. SLAG | ROOF | 3 | NEG. 8-25-94 |

Inspector's Signature: Jesus C Date: 10-06-2000

015DCS

| | Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present 6-6-01 |
|---|---|---|---|---|
| M. | STUCCO WALL | EXTERIOR | 3 | BY POINT COUNT NEG |
| N. | LENNOX HTR. 12X12 WALL | ROOM 172 P.M. OFFICE | N/A | — |
| O. | TILE DRYWALL | Rm 165 | 3 | 6-6-01 NEG |
| P. | WALL W/JOINT COMPOUND | Rm 166 NON RMS. 167 & 168 PLANT M&R'S OFFICE | 3+3 | 6-6-01 NEG |
| Q. | 4" BLACK COVEBASE W/MASTIC | MEN & WOMEN R-E'S. | 2-8-L | Assumed Sampled |
| R. | 12X12 WHITE FLOOR TILE W/MASTIC "REZNOR" | WOMENS CUSTODIANS LOCKER RM., RM. 173 | 2-8-L | Assumed Sampled |
| S. | CEILING HEATERS. | ROOMS. 165, 166 | N/A | — |
| T. | VIBRATION PADS REDUCERS | RECEIVING RM. 172A | N/A | VINYL |
| U. | TECTUM CEILING 12X12 FISSURE | RMS. 160, 167, 168 | N/A | — |
| V. | WALL TILE W/ADHESIVE GRAY | RM. 1060 | | Sampled ASSUMED 2-8-L |
| W. | CARPET 12X12 GRAY | RM. 172 | | Sampled ASSUMED 2-8-L |
| X. | FLOOR TILE W/MASTIC DASHCOAT | RM. 172 | | Sampled ASSUMED 2-8-L |
| Y. | ON CONCRETE MOISTURE | EXTERIOR WALL (BEHIND STUCCO WALL) | 3 | BY POINT COUNT NEG. 5-2-08 |
| Z. | BARRIER PAPER LINING | EXTERIOR | 3 | BY POINT COUNT NEG. 5-2-08 |
| AA. | [illegible] WALLS | STORAGE GARAGE | 3 | NEG. 9-25-08 |
| BB. | | | | |
| CC. | | | | |

Inspector's Signature: _____ Date: _____

Re-Inspection Survey

School Name: SAN PEDRO HS. Loc. Code: 8850

Building Name: GYMNASIUM Building Number: ~~8850~~ - 264187

Building Square Feet: _____ Height of Typical Room: _____

Inspector: S. PAVLINOVIC Number: 21201

| Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|
| A. Plaster Ceilings | All except noted below | | |
| B. Plaster Walls | All except noted below | | |
| C. Ceilings Tiles | | | |
| D. ( NEW BLDG. OPENED IN OCT./2008 ) | | | |
| E. | | | |
| F. | | | |
| G. | | | |
| H. | | | |
| I. NO ASBESTOS CONTAINING BUILDING MATERIAL | | | |
| J. | | | |
| K. SEE ATTACHED LETTER DATED 3-18-09 | | | |
| L. | | | |

Inspector's Signature: _____ Date: 3-19-09

# INTER-OFFICE CORRESPONDENCE

## Los Angeles Unified School District

**TO:** Management Planner, Management Plan Room
Asbestos Technical Unit

**DATE:** March 18, 2009

**FROM:** Paul Flores, Asbestos Inspector
Asbestos Technical Unit

**SUBJECT: San Pedro High School (8850) Addition AHERA Certification**

The following facts were discerned by me as I reviewed various District records and building plans and specifications:

1. The San Pedro High School Addition (642Q2)

2. The project was completed in Oct 2008

3. The construction contract General Conditions (00700) included the limitation: "The furnishing, use or installation of Lead Containing Paint or Asbestos'(sic) Containing Construction Materials into the Work, Project or onto OWNER property is not permitted."

4. Based upon these contract provisions, to the best of my knowledge, no **Asbestos Containing Building Material** was used as a building material in these buildings.

New Gym Bldg –Maximo ~~8850~~-264187

Given the above, AHERA inspections are no longer required of these buildings. However, the site should be monitored for the addition of portable buildings that may require AHERA surveillance and inspection.

Paul Flores
Asbestos Inspector
Cert. # 1628, California

# ASBESTOS SURVEY FORM A
## Reinspection Survey

A-2241Y

School Name: SAN PEDRO HIGH SCHOOL Loc. Code: 8850

Building Name: STD CLASSROOM RELOC Building Number: ~~8850-00~~

Building Square Feet: _____ Height of Typical Room: 8'

Inspector: JESUS C. CARBAJAL Number: 13543

| Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|
| A. Plaster Ceilings | All except noted below | N-A | — |
| B. Plaster Walls | All except noted below | N-A | — |
| C. 2x4 FISSURED Ceiling Tiles | B-165 ROOM: (B-167) | 3 | NEG. 1/19/06 C.M. |
| D. 12x12 LT. GRAY FLOOR TILE W/MASTIC | B-165 ROOM: (B-167) | N/A | — |
| E. W/ ADHESIVE 4" GRAY COVEBASE | B-165 ROOM: (B-167) | N/A | — |
| F. WOOD SIDING | EXTERIOR | N-A | — |
| G. Drywall Wall | B-165 | 3 | NEG. 1/19/06 C.M. |
| H. ROOM B-167 | CHANGED TO B-165 ON AUG. 22, 2002 | | |
| I. | | | |
| J. (NO SUSPECT MATERIALS SEE ATTACHED LETTERS) | | | |
| K. | PACESETTER INDUSTRIES INC DSA APPL. # 02-101-592 SERIAL # 99-330-118-038-A/B | | |
| L. | | | |

Inspector's Signature: Jesus Ca Date: MAR 06 2002

# INTER-OFFICE CORRESPONDENCE
## Los Angeles Unified School District

TO: AHERA File DATE: 9-25-07

FROM: Timothy Lentz, Project Manager II

SUBJECT: Certification of Pacesetter Relocatable Classroom Buildings

During my tenure in the District's Relocatable Housing Unit, I was personally involved in obtaining from Pacesetter a letter certifying that no asbestos containing building materials were used in the manufacture of their relocatable classroom buildings. I personally had a copy of the letter in my possession during the time I was assigned to the Relocatable Housing Unit. The original letter from Pacesetter apparently has been lost or misplaced.

Based upon these facts, I certify that to the best of my knowledge, no asbestos containing building material was used on the manufacture of the Pacesetter relocatable classroom buildings at various locations in the District.

OCT 25 2007

Timothy Lentz
Accredited Asbestos Building Inspector Certificate No.02260 California

Site Name: SAN PEDRO HS.

Location Code: 8850

Building Number: 8850-00 A22417

Serial Number: 99-330-118-038-A+B

LOS ANGELES UNIFIED SCHOOL DISTRICT
Asbestos Technical Unit

To Whom It May Concern:

From: Rick Henry, Facilities Service Director
Asbestos Technical Unit, Central Shops

Subject; Post A.H.E.R.A. Modular Buildings

A certified Asbestos Inspector has reviewed documents pertaining to the building/s listed below. Documents in the possession of the Los Angeles Unified School District indicate that no asbestos-containing building materials (ACBM) were specified in the construction of the building/s. A letter from the manufacturer is attached.

SITE: SAN PEDRO HS. LOCATION CODE: 8850

Building number: 8850-00 A2241Y Manufacture: PACESETTER

Serial #: 99-330-118-038-A+B

Date of construction: 1999 Date of inspection: 9-24-07

Certified Inspector: STEVE PAVLINOVIC

Inspector's signature: J Pavlinovic Date: 9-25-07

# ASBESTOS SURVEY FORM A
## Reinspection Survey

A 22812

School Name: SAN PEDRO HIGH SCHOOL Loc. Code: 8850

Building Name: STD CLASSROOM RELOC. Building Number: ~~8850-B9~~

Building Square Feet: _____ Height of Typical Room: 8'

Inspector: JESUS C. CARBAJAL Number: 13543

| Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|
| A. Plaster Ceilings | All except noted below | N-A | — |
| B. Plaster Walls | All except noted below | N-A | — |
| C. FIBERGLASS Ceiling Tiles | ROOM : B-9 | N-A | — |
| D. 12x12 LT. BROWN FLOOR TILE | ROOM : B-9 | N-A | — |
| E. 4" BEIGE COVEBASE | ROOM : B-9 | N-A | — |
| F. WOOD SIDING | EXTERIOR | N-A | — |
| G. | | | |
| H. NO SAMPLES ARE REQUIRED ON THIS BLDG. SEE ATTACHED LETTER. | | | |
| I. | | | |
| J. | | | |
| K. AMERICAN MODULAR<br>DSA APL # 02-103013<br>SERIAL # 01-527-015-A/B | | | |
| L. DATE OF MFR JUNE 2001 | | | |

Inspector's Signature: Jesus C. Date: MAR 06 2002

# Los Angeles Unified School District
Asbestos Technical Unit

To Whom It May Concern:

From: Rick Henry, Facilities Services Director
Asbestos Technical Unit, Central Shops

Subject: Post A.H.E.R.A. Modular Buildings

A certified Asbestos Inspector has reviewed documents pertaining to the building/s listed below. Documents in the possesion of the Los Angeles Unified School District indicate that no asbestos-containing building materials (ACBM) were specified in the construction of the building/s. A letter from the manufacturer is attached.

SITE: SAN PEDRO SR. HIGH LOCATION CODE: 8850

Building number: 8850-B9 A22812 Manufacturer: AMERICAN MODULAR

Date of construction: 06-2001 Date of inspection: 03-06-02

Certified Inspector: JESUS C. CARRAJAL Certification number: 13543

Inspector's signature: [signature] Date: 03-06-02

American Modular Systems

333 East Carnegie Court
Manteca, CA 95337
(209) 825-1921
FAX (209) 825-7016

# ASBESTOS CERTIFICATION

To: Los Angeles Unified School District
355 South Grand Ave., 4th Floor
Los Angeles, CA 90071

Project: Various DSA Single Story Relocatable Classrooms
Contract No. 9950064

The following shall certify that no asbestos or lead containing building materials (ACBM) were specified on this project nor was there asbestos or lead containing building materials (ACBM) which exceeded State and Federal mandated safe asbestos levels used in the construction of relocatable facilities manufactured by American Modular Systems, Inc.

Certified by:

Daniel Serich
American Modular Systems, Inc
General Manager

01-14-02
Date

Asbcert

# ASBESTOS SURVEY FORM A
## Reinspection Survey

School Name: SAN PEDRO SR Loc. Code: 8850

Building Name: 2/3 UNIT RELOCATABLE Building Number: X0244K

Building Square Feet: 2043 Height of Typical Room: 10

Inspector: JESUS C. CARBAJAL Number: 13543

| Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|
| A. Plaster Ceilings | All except noted below | N-A | — |
| WOOD (NO COMPOUND) | RMS. B14, B15, B16 | | |
| B. ~~Plaster~~ Walls | ~~All except noted below~~ | N-A | — |
| 12"x12" RANDOM (NAILED ON) | RMS. B14, B15, B16 | | 6-6-01 |
| C. Ceiling Tiles | | 3 | NEG. |
| BROWN | STORAGE. SUPPLY RM. | | |
| D. MASTI-PAVE | KITCHENETTE. TOILET | 5 | NEG. 5-30-96 |
| REMOVED BROWN MASTI-PAVE | | | |
| E. UNDER CARPET | OFFICES 1.2.3 | 3 | NEG. 5-30-96 |
| F. STUCCO WALL | EXTERIOR | 3 | NEG 7-21-97 |
| G. SHINGLES/CAPSHEET | ROOF | 3 | NEG. 7-10-97 |
| REMOVED Baseboard | | | 6-6-01 |
| H. MASTIC | B-16 | 3 | Neg |
| | RMS. B14, B15, B16 | | |
| 12x12 COTTAGE TAN 12x12 BEIGE—MIXED | | | |
| I. FLOOR TILES | B-16. B-17 | N-A | NEW |
| | RMS. B14, B15, B16 | | |
| J. 4" BROWN COVEBASE | B-16. B-17 | N-A | NEW |
| K. | | | |
| L. | | | |

Inspector's Signature: JESUS C Date: 10-06-2000

# ASBESTOS SURVEY FORM A
## Reinspection Survey

School Name: SAN PEDRO SR Loc. Code: 8850

Building Name: 2/3 UNIT RELOCATABLE Building Number: X0347L

Building Square Feet: 2043 Height of Typical Room: 10'

Inspector: JESUS C. CARBAJAL Number: 13543

| Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|
| A. Plaster Ceilings | All except noted below | N-A | — |
| WOOD (NO COMPOUND) | MENS R/R, WOMENS R/R, B17, B18/19 | | |
| B. ~~Plaster~~ Walls | ~~All except noted below~~ | N-A | — |
| | MENS R/R, WOMENS R/R, | | 6-6-01 |
| 12"x12" RANDOM (NAILED ON) C. Ceiling Tiles | B18/19 | 3 | Neg |
| REMOVED BLACK - RED (D.) BATTLESHIP FLOOR | B18/19 | N/A | REMOVED 2007 |
| E. STUCCO WALL | EXTERIOR | 3 | NEG 7-21-97 |
| 12X12 SF. LINE (NAILED ON) F. Ceiling Tile | B17.. | 3 | 6-6-01 Neg |
| G. BLUE | MENS R/R, | | NEW |
| H. FLOR SHEETING 12X12 BLUE | WOMENS R/R | N/A | 2007 |
| I. FLOR TILE 4" BLUE | B17, B18/19 | ↓ | ↓ |
| J. COVEBASE PLASTIC | ↓ | ↓ | ↓ |
| K. TRANSOMS | B18/19 | N/A | — |
| L. | | | |

Inspector's Signature: Jesus C. Date: 10-06-2000

# ASBESTOS SURVEY FORM A
## Reinspection Survey

School Name: SAN PEDRO SR  Loc. Code: 8850

Building Name: 2/3 UNIT RELOCATABLE  Building Number: X1007M

Building Square Feet: 1935  Height of Typical Room: 10'

Inspector: JESUS C. CARBAJAL  Number: 13543

| Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|
| A. Plaster Ceilings | All except noted below | N-A | |
| B. ~~Plaster~~ WOOD Walls W/COMPOUND | B1, B2 ~~All except noted below~~ | 3 | NEG. 12-3-92 |
| C. 12"X12" RANDOM (NAILED ON) Ceiling Tiles | ROOMS B1. | 3 | 6-6-01 NEG |
| REMOVED D. 12"X12" ORANGE YELLOW FLOOR TILE | B1, B2 | 6 | 12-6-00 Neg |
| E. STUCCO WALL | EXTERIOR | 3 | NEG. 7-21-97 |
| F. 12"X12" STRAIGHT (NAILED ON) | | | 6-6-01 |
| G. CEILING TILE 12x12 Lt. Brown | ROOM B2 | 3 | NEG |
| REMOVED H. Floor Tile (Patch) 12x12 White | B-1 | 3 | 12-6-00 Neg |
| I. Floor Tile | B1 | 21 | 12-6-00 Neg |
| J. 12x12 COTTAGE TAN | | | |
| K. FLOOR TILE | B-1, B-2 | N-A | NEW |
| L. 4" Brown COVEBASE | B-1, B-2 | N-A | NEW |

Inspector's Signature: Jesus C.  Date: 10-06-2000

X1007M

| | Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|---|
| M. | WINDOW PUTTY | EXTERIOR (ABOVE CEILING TILE) | 3 | POS. 12-29-04 |
| N. | DUST BARRIER PAPER | B1 & B2 | 3 | NEG. 1/20/06 C.M. |
| O. | Roof Debris | B1 & B2 | 3 | NEG 1/20/06 C.M. |
| P. | PENETRATION MASTIC | ROOF | 3 | NEG 4/15/03 |
| Q. | ROOF ROLL | ROOF | 3 | NEG 4-15-03 |
| R. | Cap Sheet | Roof | 3 | NEG 3/25/06 MD |
| S. | PENETRATION MASTIC | Roof | 3 | NEG 3/25/06 MD |
| T. | PLASTIC TRANSOMS | B1, B2 | N/A | |
| U. | | | | |
| V. | | | | |
| W. | | | | |
| X. | | | | |
| Y. | | | | |
| Z. | | | | |
| AA. | | | | |
| BB. | | | | |
| CC. | | | | |

Inspector's Signature: _____ Date: _____

# ASBESTOS SURVEY FORM A
## Reinspection Survey

School Name: SAN PEDRO SR Loc. Code: 8850

Building Name: 2/3 UNIT RELOCATABLE Building Number: X2082P

Building Square Feet: 2007 Height of Typical Room: 10'

Inspector: JESUS C. CARBAJAL Number: 13543

| Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|
| A. Plaster Ceilings | All except noted below | N-A | |
| B. ~~Plaster~~ WOOD Walls (NO COMPOUND) | B7, B8 ~~All except noted below~~ | N-A | |
| C. TECTUM Ceiling Tiles | ROOMS B7.B8 | N-A | |
| (D) REMOVED BROWN FLOOR SHEETING W/MASTIC | B7. B8 | N/A | REMOVED AS OF MARCH/06 |
| E. STUCCO WALL | EXTERIOR | 3 | POS. 7-21-97 |
| F. 12X12 BLUE | | | NEW AS OF MARCH/06 |
| G. FLOOR TILE | RMS. B-7 & B-8 | N/A | |
| ROOF ROLL | ROOF | 3 | NEG 4-15-03 |
| H. PENETRATION | ROOF | 3 | NEG 4-15-03 |
| I. MASTIC | | 3 | POS 3/24/06 RS POINT COUNT POS 4/27/06 HA |
| J. CAPSHEET | Roof | 3 | POS 3/24/06 RA |
| K. PENETRATION) MASTIC 4" BLUE | Roof | 3 | NEW AS OF MARCH/06 |
| L. COVE BASE | B7, B8 | N/A | |

Inspector's Signature: [signature] Date: 16-06-2006

# ASBESTOS SURVEY FORM A
## Reinspection Survey

School Name: SAN PEDRO SR Loc. Code: 8850

Building Name: 2/3 UNIT RELOCATABLE Building Number: X2383P

Building Square Feet: 2007 Height of Typical Room: 10'

Inspector: JESUS C. CARBAJAL Number: 13543

| Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|
| A. Plaster Ceilings | All except noted below | N-A | — |
| B. ~~Plaster~~ WOOD Walls (NO COMPOUND) | B10, B11 ~~All except noted below~~ | N-A | — |
| C. TECTUM Ceiling Tiles | B11, B12-B-10 (HEATER ACCESS) | N-A | — |
| D. VIBRATION REDUCER RED-BLACK | RMS. B10, B11 | | Assumed |
| REMOVED E. FLOOR SHEETING w/MASTIC | B11, B12-B-10 | N/A | REMOVED AS OF MARCH/06 POS. 1/20/06 C.H. |
| F. STUCCO WALL WINDOW | EXTERIOR | 3 | POS. 7-21-97 6-6-01 |
| G. PUTTY | B-11 | 3 | Neg |
| H. 12X12 BLUE | | | NEW AS OF MARCH/06 |
| I. FLOOR TILE | RMS. B-10 & B-11 | N/A | |
| J. ROOM B-12 CHANGED TO B-10 ON NOV. 22, 2002 | | | |
| K. 4" BLUE | | | NEW AS OF MARCH/06 |
| L. COVE BASE | RMS. B-10 & B-11 | N/A | |

Inspector's Signature: JESUS C. Date: 10-06-2000

X23839

| | Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|---|
| M. | ROOF ROLL | ROOF | 3 | NEG 4-14-03 |
| N. | PENETRATION MASTIC | ROOF | 3 | POS 4-14-03 NEG 3/24/06 NE |
| O. | CAPSHEET LT BROWN | ROOF | 3 | POS <1% 3/24/06 NE |
| P. | BARRIER PAPER | Roof | 1 | NEG 3/24/06 NE |
| Q. | PENETRATION MASTIC | Roof | 3 | |
| R. | WOOD TRANSOMS MOISTURE | B10, B11 (BEHIND STUCCO WALL) | N/A | BY POINT COUNT |
| S. | BARRIER PAPER | EXTERIOR | 3 | NEG. 5-2-08 |
| T. | | | | |
| U. | | | | |
| V. | | | | |
| W. | | | | |
| X. | | | | |
| Y. | | | | |
| Z. | | | | |
| AA. | | | | |
| BB. | | | | |
| CC. | | | | |

Inspector's Signature:_____ Date:_____

# ASBESTOS SURVEY FORM A
## Reinspection Survey

School Name: SAN PEDRO SR Loc. Code: 8850

Building Name: 2/3 UNIT RELOCATABLE Building Number: X2384P

Building Square Feet: 2007 Height of Typical Room: 10'

Inspector: JESUS C. CARBAJAL Number: 13543

| Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|
| A. Plaster Ceilings | All except noted below | N-A | — |
| B. ~~Plaster~~ WOOD Walls (NO COMPOUND) | B12, B13 ~~All except noted below~~ | N-A | — |
| C. TECTUM Ceiling Tiles | ROOMS B13. B14 B-12 | N-A | — |
| D. | | | |
| E. VIBRATION REDUCER 12"X12" SAND BROWN | RMS. B12, B13 (HEATER ACCESS) | | Assumed NEG. 12-6-00 |
| F. FLOOR TILE | (B13) (B14) B-12 (NEED MASTIC) | TILE ONLY → 3 / 3 | ASSUMED BY POINT COUNT 5-2-08 |
| G. STUCCO WALL | EXTERIOR | 3 | POS. 1/20/06 C.M. 12-6-00 |
| H. Yes Present Sampled ~~12x12 LT. Brown~~ FLOOR TILE w/ MASTIC 12 X 12 BLUE | B-13 (COTTAGE TWO) (REPAIRS PATCH) | 3 | NEG NEW AS OF 2007 |
| I. FLOOR TILE | B12 | N/A | |
| J. ROOM B-14 COMBINED TO B-12 | | | |
| K. DEL AUG 22, 2012. | | | |
| L. ROOF ROLL | ROOF | 3 | NEG 4-15-03 |

Inspector's Signature: JESUS C. Date: 10-06-2000

X2384P

| | Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|---|
| M. | PENETRATION MASTIC | ROOF | 3 | NEG 4-15-03 NEG 3/24/06 CB |
| N. | Capsheet | ROOF | 3 | NEG 3/24/06 CB |
| O. | LT BROWN MINERAL WOOL INSULATION | ROOF | 3 | POS 3/24/06 |
| P. | BARRIER PAPER 4" BROWN | ROOF | 3 | POS BY P.C. 4/24/06 CB |
| Q. | COVE BASE 4" BLUE | RM. B13 | | ASSUMED NEW AS OF 2007 |
| R. | COVE BASE | RM. B12 | N/A | |
| S. | WOOD TRANSOMS MOISTURE | B12, B13 (BEHIND STUCCO WALL) | N/A | BY POINT COUNT |
| T. | BARRIER PAPER | EXTERIOR | 3 | NEG. 5-2-08 |
| U. | | | | |
| V. | | | | |
| W. | | | | |
| X. | | | | |
| Y. | | | | |
| Z. | | | | |
| AA. | | | | |
| BB. | | | | |
| CC. | | | | |

Inspector's Signature:_____ Date:_____

# ASBESTOS SURVEY FORM A
## Reinspection Survey

School Name: SAN PEDRO SR Loc. Code: 8850

Building Name: TWO STORY RELOCATABLE Building Number: Z0182S

Building Square Feet: 4014 Height of Typical Room: 10'

Inspector: JESUS C. CARBAJAL Number: 13543

| Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|
| A. Plaster Ceilings | All except noted below | N-A | — |
| B. Plaster Walls | All except noted below | N-A | — |
| C. 2'x4' RANDOM Ceiling Tiles | B3. B4, B5, B6 | 3 | NEG. 3-11-99 |
| DRYWALL wall | B4-3-6 | 3 | 6-6-01 (JCT HOT) |
| D. w/ TAPE & MUD 12"X12" BROWN | B3. B4. B5. B6 | 3 | POS. 12-12-94 sampled 2-8-16 CWS |
| E. FLOOR TILE w/MASTIC | B3. B4. (B5. B6) UNDER BLUE CARPET | 3 | Assumed NEG. 3-12-03 BY POINT COUNT |
| F. STUCCO WALL ACOUSTIC | EXTERIOR | 3 | NEG. 12-13-94 6-6-01 |
| G. PLASTER CEILING TAR ON A/C | DOUBLE ARCADE Roof | 3 | BY POINT COUNT 1-10-01 Neg |
| H. DUCT (Black UNWRAPPED) DUCTWRAP | | 3 | Pos 1-10-01 |
| I. GROUND DUCT JOINTS MASTIC | Roof | 3 | Pos 1-10-01 |
| J. ON DUCTS TAR ON BASE | Roof | 3 | Pos 1-10-01 |
| K. Plate 4" BROWN | Roof B-3, B-4, B-6 | 3 | Neg 6-6-01 |
| L. COVE BASE W/ADHESIVE | | 3 | Neg |

Removed 3-25-02

Inspector's Signature: JESUS C. CARBAJAL Date: 10-06-2000

201825

| | Type of Suspected Material | Specific Location | Req. # of Samples | Asbestos Present |
|---|---|---|---|---|
| M. | CEMENT BOARD (DEX-O-TEX (GRAY) | (BELOW WINDOWS.) B-3. B4. B5. B-6 | ~~did not sample~~ | Sampled 2-8-16 Assumed. CWS |
| N. | DECK COATING 12 x 12 BLUE | 2ND. FLOOR | 6/3 | POS. 7-14-03 POS. 3-12-03 NEW |
| O. | FLOOR TILE 4" BLUE | RMS. B5, B6 | N/A | |
| P. | COVE BASE DUCT SEAM | (INSIDE DUCT ENCLOSURES) | | |
| Q. | SEAL TAPE MOISTURE | RMS. B3, B4 (BEHIND STUCCO WALL) 1ST. AND 2ND. FLOORS EXTERIOR | | Sampled ~~Assumed~~ |
| R. | BARRIER PAPER | | 3+3 | NEG. 5-2-08 |
| S. | | | | |
| T. | | | | |
| U. | | | | |
| V. | Chimney | | | |
| W. | | | | |
| X. | Chimney | | | |
| Y. | | | | |
| Z. | | | | |
| AA. | | | | |
| BB. | | | | |
| CC. | | | | |

Inspector's Signature: _____ Date: _____

# APPENDIX C: CNS Environmental's Certifications

# CNS ENVIRONMENTAL, INC.

State of California
Division of Occupational Safety and Health
**Certified Asbestos Consultant**



**Edward Dean Spinney**
Name

Certification #: 00-2795

Expires on: 07/28/16

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

650 N. Rose Drive, Suite 616, Placentia, California 92870-7513
Phone: (714) 525-5115, Fax: (714) 526-5445
www.cnsenvironmental.com

# CNS ENVIRONMENTAL, INC.

State of California
Division of Occupational Safety and Health
**Certified Site Surveillance Technician**



Glenn A Colquitt
Name

Certification No. 14-5219

Expires on 05/14/16

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

650 N. Rose Drive, Suité 616, Placentia, California 92870-7513
Phone: (714) 525-5115, Fax: (714) 526-5445
www.cnsenvironmental.com

# APPENDIX D: Scope of Work

# Los Angeles Unified School District
## Facilities Services Division

OFFICE OF THE SUPERINTENDENT

FACILITIES SERVICES DIVISION

February 2, 2016

CNS Environmental, Inc.
650 North Rose Drive, Suite 616
Placentia, CA 92870

NTP #1 (Original)

NOTICE TO PROCEED – ASBESTOS AND LEAD CONSULTING SERVICES

Project Reference: San Pedro High School
1001 West 15th Street, San Pedro, CA 90731
Comprehensive Modernization Project

Colin #10366808
Loc. Code: 8850

In accordance with the *AGREEMENT FOR ASBESTOS AND LEAD CONSULTING SERVICES,* agreement number 4400002050, you are hereby authorized to proceed, in accordance with your attached proposal with the following work:

☒ **PHASE 1** – Project Assessment and Asbestos and Lead Material Identification - Work to commence within five (5) working days from issuance of an NTP and to be completed within seventeen (17) calendar days.

☒ **PHASE 2** – Project Design for Asbestos and Lead Material In-Place Management or Abatement Contract. Work to be completed within seven (7) calendar days from completion of phase 1 or from issuance of phase 2 NTP.

☐ **PHASE 3** – Project Monitoring of Asbestos and Lead Abatement Contract - Close-out documents to be submitted within 30 days of completion of abatement and in-place management.

Please send your payment requests to Facilities Environmental Technical Unit.

Augustus Neri
Senior Insulator/Asbestos Abatement Worker

| NTP # | WBS or Cost Center | Program | PO # | NTE | NTP Date |
|---|---|---|---|---|---|
| 1 | F308102-03-404 | 14742 | 4500198890 | $35,202.50 | 2/2/2016 |
| 2 | | | | | |

**Cumulative Not To Exceed Total: $35,202.50**

**Work Order Number (for FETU laboratory cost): 26044559**

cc: file

# A.2 Notice of Preparation Comment Letters and Scoping Meeting Comments

ESA

**DEPARTMENT OF TRANSPORTATION**
DISTRICT 7-OFFICE OF REGIONAL PLANNING
100 S. MAIN STREET, MS 16
LOS ANGELES, CA 90012
PHONE (213) 897-0067
FAX (213) 897-1337
www.dot.ca.gov

*Serious drought.*
*Help save water!*

October 30, 2017

Mr. William Meade
Los Angeles Unified School District
333 South Beaudry Avenue, 21st Floor
Los Angeles, CA, 90017

RE: San Pedro High School
Comprehensive Modernization
Vic: LA-213 / PM: 0.31
GTS# 07-LA-2017-01168
SCH# 2017091080

Dear Mr. Meade:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the above referenced project. The project consists of modernization improvements to San Pedro High School. Changes include renovations, modernizations, and new construction at San Pedro High School.

Upon reviewing the Notice of Preparation (NOP), Caltrans has the following comments:

State policies and goals related to sustainable transportation seek to reduce the number of trips made by driving, reduce transportation-related greenhouse gas emissions, and encourage alternative modes of travel. Caltrans' Strategic Management Plan has set a target of tripling trips made by bicycling, as well as doubling trips made by walking and public transit by 2020. The Strategic Plan also seeks to achieve a 15% reduction in statewide per capita vehicle miles traveled by 2020. Statewide legislation such as AB 32 and SB 375, as well as Governor Executive Orders S-3-05 and B-16-12, further echo the need to pursue more sustainable development and transportation patterns. These climate change and sustainable transportation policy goals can only be achieved with active support from local agency partners such as LAUSD.

We note that in September 2016, the LAUSD School Board adopted Resolution 025-16/17 supporting Safe Routes to School, Vision Zero, and Walk to School Day. All three of these initiatives promote active transportation and elevate pedestrian safety. The resolution language reflects a commitment to help remove barriers to walking and bicycling and offers positive re-enforcement to promote sustainable and healthy transport habits. Similarly, the Board of Education's October 2003 Resolution on Sustainability and Design of High Performance Schools directs staff to continue efforts to ensure modernization projects in the District incorporate Collaborative for High Performance Schools to the extent possible and practical. This includes enhancing student and staff health and minimizing the impact of District operations on the environment. These two resolutions, though indirectly, complement each other and can be implemented in tandem to promote more sustainable, active transportation through this school modernization project. In March 2017, LAUSD released "High Performance Strategies for Major Repair and Modernization Projects," a document intended to serve as a tool to help incorporate High Performance/Sustainable design principles into modernization projects. Among the strategies included in the document are efforts to increase tree shade, pervious paving in parking lots, and coordinating installation of bicycle parking.

The project involves decreasing the amount of on-site car parking; the campus currently provides 248 parking stalls and the proposed project would reduce this to 226. In tandem with the parking reduction, we encourage LAUSD to include measures to incentivize more walking, bicycling, and/or carpooling to and from campus. The Initial Study (IS) for this project states that "LAUSD encourages ride-sharing programs for students and teachers, as well as walking and riding bicycles to school." Despite this statement, there is no evidence in the Initial Study that any efforts are actively underway to encourage ride-sharing, walking, or bicycling to San Pedro High School as part of the modernization project. Such measures should be taken into account as they may better complement the aforementioned resolutions and State policy goals. Promoting and celebrating Walk/Bike to School Day; providing safe, pleasant, and convenient bicycle parking that is sheltered from weather elements; or offering preferential parking to those that carpool should all be considered. Further, existing research on parking suggests that increasing the supply of free car parking merely encourages and enables more trips to be made by car. As a result, the project may produce a net benefit with respect to climate change and sustainable transportation policy goals by simply reducing the on-site parking.

Absent from the Initial Study is any mention of existing or new bicycle parking to be installed, despite existing policies and initiatives aimed at promoting more sustainable design and active transportation. Ignoring parking for active transportation (bicycling, skateboard, scooter) while still providing 226 parking spaces for cars, the project disproportionately promotes driving. For this reason, Caltrans strongly encourages including quality bicycle parking and active transportation amenities as part of the project design. Providing such amenities would be consistent with State level policies as well as local LAUSD initiatives. In the absence of such active transportation amenities, site users (including students, facility and staff) may be unable, unpermitted, or discouraged from using alternate modes.

To better promote the City's long-term sustainable transportation vision, the built environment could recognize and complement transportation plans for the area. Although LAUSD has a limited role in shaping transportation habits, the design of the school (pedestrian-oriented vs automobile-oriented) and amenities it provides (greenspace, car parking, bicycle parking, etc) can influence how site users go to and from the school and this should be considered. Site design that omits or makes needs of active transportation modes secondary would be inconsistent with desired State goals of promoting sustainable transportation and reducing greenhouse gas emissions. Design elements such as providing quality and inviting amenities for active transportation are especially opportune because children are more likely to walk, bicycle, skateboard, or take other active modes than the general population.

In the Draft Environmental Impact Report (DEIR), we would like to see a discussion of, and provisions for both car and bicycle parking, not just car parking. A strategy included in LAUSD's "High Performance Strategies for Major Repair and Modernization Projects" recommends identifying a designated area for bicycle and skateboard storage and coordinating site installation with school administrator. Ideally, such a discussion of car and bicycle parking would be complemented with diagrams indicating more precise location, type, and quantity of parking for both modes instead of just one.

Finally, as a reminder any transportation of heavy construction equipment and/or materials requiring use of oversized-transport vehicles on State highways will require a Caltrans transportation permit. Caltrans recommends that large size truck trips be limited to off-peak commute periods. Also, storm water run-off is a sensitive issue for Los Angeles and Ventura counties. Be mindful that the project needs to be designed

to discharge clean run-off water. The completed project could incorporate green design elements that can capture storm water. Incorporating permeable pavement, landscaping, and trees to reduce urban water run-off should be considered.

If you have any questions regarding these comments, please contact project coordinator Severin Martinez, at (213)-897-0067 or severin.martinez@dot.ca.gov and refer to GTS# LA-2017-01168.

Sincerely,

MIYA EDMONSON
Acting IGR/CEQA Branch Chief

cc: Scott Morgan, State Clearinghouse

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

SENT VIA USPS AND E-MAIL: October 24, 2017
CEQA-comments@lausd.net
Los Angeles Unified School District
Office of Environmental Health and Safety
Attention: Will Meade, Environmental Planning Specialist
333 South Beaudry Avenue, 21st Floor
Los Angeles, CA 90017

**Notice of Preparation of an Environmental Impact Report for the San Pedro High School Comprehensive Modernization Project**

The South Coast Air Quality Management District (SCAQMD) staff appreciates the opportunity to comment on the above-mentioned document. SCAQMD staff's comments are recommendations regarding the analysis of potential air quality impacts from the Proposed Project that should be included in the Environmental Impact Report (EIR). Please send SCAQMD a copy of the EIR upon its completion. Note that copies of the EIR that are submitted to the State Clearinghouse are not forwarded to SCAQMD. Please forward a copy of the EIR directly to SCAQMD at the address shown in the letterhead. **In addition, please send with the EIR all appendices or technical documents related to the air quality, health risk, and greenhouse gas analyses and electronic versions of all air quality modeling and health risk assessment files[1]. These include emission calculation spreadsheets and modeling input and output files (not PDF files). Without all files and supporting documentation, SCAQMD staff will be unable to complete our review of the air quality analyses in a timely manner. Any delays in providing all supporting documentation will require additional time for review beyond the end of the comment period.**

**Air Quality Analysis**

SCAQMD adopted its California Environmental Quality Act (CEQA) Air Quality Handbook in 1993 to assist other public agencies with the preparation of air quality analyses. SCAQMD recommends that the Lead Agency use this Handbook as guidance when preparing its air quality analysis. Copies of the Handbook are available from SCAQMD's Subscription Services Department by calling (909) 396-3720. More guidance developed since this Handbook is also available on SCAQMD's website at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/ceqa-air-quality-handbook-(1993). SCAQMD staff also recommends that the Lead Agency use the CalEEMod land use emissions software. This software has recently been updated to incorporate up-to-date state and locally approved emission factors and methodologies for estimating pollutant emissions from typical land use development. CalEEMod is the only software model maintained by the California Air Pollution Control Officers Association (CAPCOA) and replaces the now outdated URBEMIS. This model is available free of charge at: www.caleemod.com.

SCAQMD has also developed both regional and localized significance thresholds. SCAQMD staff requests that the Lead Agency quantify criteria pollutant emissions and compare the results to

[1] Pursuant to the CEQA Guidelines Section 15174, the information contained in an EIR shall include summarized technical data, maps, plot plans, diagrams, and similar relevant information sufficient to permit full assessment of significant environmental impacts by reviewing agencies and members of the public. Placement of highly technical and specialized analysis and data in the body of an EIR should be avoided through inclusion of supporting information and analyses as appendices to the main body of the EIR. Appendices to the EIR may be prepared in volumes separate from the basic EIR document, but shall be readily available for public examination and shall be submitted to all clearinghouses which assist in public review.

SCAQMD's CEQA regional pollutant emissions significance thresholds to determine air quality impacts. SCAQMD's CEQA regional pollutant emissions significance thresholds can be found here: http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf. In addition to analyzing regional air quality impacts, SCAQMD staff recommends calculating localized air quality impacts and comparing the results to localized significance thresholds (LSTs). LSTs can be used in addition to the recommended regional significance thresholds as a second indication of air quality impacts when preparing a CEQA document. Therefore, when preparing the air quality analysis for the Proposed Project, it is recommended that the Lead Agency perform a localized analysis by either using the LSTs developed by SCAQMD staff or performing dispersion modeling as necessary. Guidance for performing a localized air quality analysis can be found at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds.

The Lead Agency should identify any potential adverse air quality impacts that could occur from all phases of the Proposed Project and all air pollutant sources related to the Proposed Project. Air quality impacts from both construction (including demolition, if any) and operations should be calculated. Construction-related air quality impacts typically include, but are not limited to, emissions from the use of heavy-duty equipment from grading, earth-loading/unloading, paving, architectural coatings, off-road mobile sources (e.g., heavy-duty construction equipment) and on-road mobile sources (e.g., construction worker vehicle trips, material transport trips). Operation-related air quality impacts may include, but are not limited to, emissions from stationary sources (e.g., boilers), area sources (e.g., solvents and coatings), and vehicular trips (e.g., on- and off-road tailpipe emissions and entrained dust). Air quality impacts from indirect sources, such as sources that generate or attract vehicular trips, should be included in the analysis.

In the event that the Proposed Project generates or attracts vehicular trips, especially heavy-duty diesel-fueled vehicles, it is recommended that the Lead Agency perform a mobile source health risk assessment. Guidance for performing a mobile source health risk assessment ("*Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis*") can be found at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mobile-source-toxics-analysis. An analysis of all toxic air contaminant impacts due to the use of equipment potentially generating such air pollutants should also be included.

In addition, guidance on siting incompatible land uses (such as placing homes near freeways) can be found in the California Air Resources Board's *Air Quality and Land Use Handbook: A Community Health Perspective*, which can be found at: http://www.arb.ca.gov/ch/handbook.pdf. CARB's Land Use Handbook is a general reference guide for evaluating and reducing air pollution impacts associated with new projects that go through the land use decision-making process. Guidance[2] on strategies to reduce air pollution exposure near high-volume roadways can be found at: https://www.arb.ca.gov/ch/rd_technical_advisory_final.PDF.

**Mitigation Measures**

In the event that the Proposed Project generates significant adverse air quality impacts, CEQA requires that all feasible mitigation measures that go beyond what is required by law be utilized during project construction and operation to minimize these impacts. Pursuant to CEQA Guidelines Section 15126.4 (a)(1)(D), any impacts resulting from mitigation measures must also be discussed. Several resources are

[2] In April 2017, CARB published a technical advisory, *Strategies to Reduce Air Pollution Exposure Near High-Volume Roadways: Technical Advisory*, to supplement CARB's Air Quality and Land Use Handbook: A Community Health Perspective. This technical advisory is intended to provide information on strategies to reduce exposures to traffic emissions near high-volume roadways to assist land use planning and decision-making in order to protect public health and promote equity and environmental justice. The technical advisory is available at: https://www.arb.ca.gov/ch/landuse.htm.

available to assist the Lead Agency with identifying potential mitigation measures for the Proposed Project, including:

- Chapter 11 of SCAQMD's CEQA Air Quality Handbook
- SCAQMD's CEQA web pages available here: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mitigation-measures-and-control-efficiencies
- SCAQMD's Rule 403 – Fugitive Dust, and the Implementation Handbook for controlling construction-related emissions and Rule 1403 – Asbestos Emissions from Demolition/Renovation Activities
- SCAQMD's Mitigation Monitoring and Reporting Plan (MMRP) for the 2016 Air Quality Management Plan (2016 AQMP) available here (starting on page 86): http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2017/2017-mar3-035.pdf
- CAPCOA's *Quantifying Greenhouse Gas Mitigation Measures* available here: http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf

**Alternatives**

In the event that the Proposed Project generates significant adverse air quality impacts, CEQA requires the consideration and discussion of alternatives to the project or its location which are capable of avoiding or substantially lessening any of the significant effects of the project. The discussion of a reasonable range of potentially feasible alternatives, including a "no project" alternative, is intended to foster informed decision-making and public participation. Pursuant to CEQA Guidelines Section 15126.6(d), the EIR shall include sufficient information about each alternative to allow meaningful evaluation, analysis, and comparison with the Proposed Project.

**Permits**

In the event that the Proposed Project requires a permit from SCAQMD, SCAQMD should be identified as a responsible agency for the Proposed Project. For more information on permits, please visit SCAQMD webpage at: http://www.aqmd.gov/home/permits. Questions on permits can be directed to SCAQMD's Engineering and Permitting staff at (909) 396-3385.

**Data Sources**

SCAQMD rules and relevant air quality reports and data are available by calling SCAQMD's Public Information Center at (909) 396-2039. Much of the information available through the Public Information Center is also available at SCAQMD's webpage at: http://www.aqmd.gov.

SCAQMD staff is available to work with the Lead Agency to ensure that project air quality impacts are accurately evaluated and any significant impacts are mitigated where feasible. If you have any questions regarding this letter, please contact me at lsun@aqmd.gov or call me at (909) 396-3308.

Sincerely,

Lijin Sun

Lijin Sun, J.D.
Program Supervisor, CEQA IGR
Planning, Rule Development & Area Sources

LS
LAC171003-05
Control Number

STATE OF CALIFORNIA
NATIVE AMERICAN HERITAGE COMMISSION
Environmental and Cultural Department
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
Phone (916) 373-3710

Edmund G. Brown Jr., Governor

LAUSD
OFFICE OF
ENV. HEALTH & SAFETY
2017 NOV -9 PM 4:02

October 5, 2017

William Meade
Los Angeles Unified School District
333 South Beaudry Avenue, 21st Floor
Los Angeles, CA 90017

Sent via e-mail: William.meade@lausd.net
Cc: CEQA-comments@lausd.net

RE: SCH# 2017091080; San Pedro High School Comprehensive Modernization Project, City of San Pedro; Los Angeles County, California

Dear Mr. Meade:

The Native American Heritage Commission has received the Notice of Preparation (NOP) for Draft Environmental Impact Report for the project referenced above. The California Environmental Quality Act (CEQA) (Pub. Resources Code § 21000 et seq.), specifically Public Resources Code section 21084.1, states that a project that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.1; Cal. Code Regs., tit.14, § 15064.5 (b) (CEQA Guidelines Section 15064.5 (b)). If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an environmental impact report (EIR) shall be prepared. (Pub. Resources Code § 21080 (d); Cal. Code Regs., tit. 14, § 15064 subd. (a)(1) (CEQA Guidelines § 15064 (a)(1)). In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources with the area of project effect (APE).

**CEQA was amended significantly in 2014**. Assembly Bill 52 (Gatto, Chapter 532, Statutes of 2014) (AB 52) amended CEQA to create a **separate category of cultural resources**, "tribal cultural resources" (Pub. Resources Code § 21074) and provides that a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment (Pub. Resources Code § 21084.2). Please reference California Natural Resources Agency (2016) "Final Text for tribal cultural resources update to Appendix G: Environmental Checklist Form," http://resources.ca.gov/ceqa/docs/ab52/Clean-final-AB-52-App-G-text-Submitted.pdf. Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. (Pub. Resources Code § 21084.3 (a)). **AB 52 applies to any project for which a notice of preparation or a notice of negative declaration or mitigated negative declaration is filed on or after July 1, 2015.** If your project involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space, on or after March 1, 2005, it may also be subject to Senate Bill 18 (Burton, Chapter 905, Statutes of 2004) (SB 18). **Both SB 18 and AB 52 have tribal consultation requirements**. If your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966 (154 U.S.C. 300101, 36 C.F.R. § 800 et seq.) may also apply.

The NAHC recommends **lead agencies consult with all California Native American tribes** that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources. Below is a brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments. **Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws**.

AB 52

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

1. Fourteen Day Period to Provide Notice of Completion of an Application/Decision to Undertake a Project: Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a **lead agency** shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, to be accomplished by at least one written notice that includes:
    a. A brief description of the project.
    b. The lead agency contact information.
    c. Notification that the California Native American tribe has 30 days to request consultation. (Pub. Resources Code § 21080.3.1 (d)).
    d. A "California Native American tribe" is defined as a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of Statutes of 2004 (SB 18). (Pub. Resources Code § 21073).

2. Begin Consultation Within 30 Days of Receiving a Tribe's Request for Consultation and Before Releasing a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report: A **lead agency** shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project. (Pub. Resources Code § 21080.3.1, subds. (d) and (e)) and prior to the release of a negative declaration, mitigated negative declaration or environmental impact report. (Pub. Resources Code § 21080.3.1(b)).
    a. For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code § 65352.4 (SB 18). (Pub. Resources Code § 21080.3.1 (b)).

3. Mandatory Topics of Consultation If Requested by a Tribe: The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:
    a. Alternatives to the project.
    b. Recommended mitigation measures.
    c. Significant effects. (Pub. Resources Code § 21080.3.2 (a)).

4. Discretionary Topics of Consultation: The following topics are discretionary topics of consultation:
    a. Type of environmental review necessary.
    b. Significance of the tribal cultural resources.
    c. Significance of the project's impacts on tribal cultural resources.
    d. If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. (Pub. Resources Code § 21080.3.2 (a)).

5. Confidentiality of Information Submitted by a Tribe During the Environmental Review Process: With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code sections 6254 (r) and 6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public. (Pub. Resources Code § 21082.3 (c)(1)).

6. Discussion of Impacts to Tribal Cultural Resources in the Environmental Document: If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:
    a. Whether the proposed project has a significant impact on an identified tribal cultural resource.
    b. Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code section 21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource. (Pub. Resources Code § 21082.3 (b)).

7. Conclusion of Consultation: Consultation with a tribe shall be considered concluded when either of the following occurs:
    a. The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or
    b. A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached. (Pub. Resources Code § 21080.3.2 (b)).

8. Recommending Mitigation Measures Agreed Upon in Consultation in the Environmental Document: Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code section 21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code section 21082.3, subdivision (b), paragraph 2, and shall be fully enforceable. (Pub. Resources Code § 21082.3 (a)).

9. Required Consideration of Feasible Mitigation: If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code section 21084.3 (b). (Pub. Resources Code § 21082.3 (e)).

10. Examples of Mitigation Measures That, If Feasible, May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:
    a. Avoidance and preservation of the resources in place, including, but not limited to:
        i. Planning and construction to avoid the resources and protect the cultural and natural context.
        ii. Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.
    b. Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:
        i. Protecting the cultural character and integrity of the resource.
        ii. Protecting the traditional use of the resource.
        iii. Protecting the confidentiality of the resource.
    c. Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.
    d. Protecting the resource. (Pub. Resource Code § 21084.3 (b)).
    e. Please note that a federally recognized California Native American tribe or a nonfederally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed. (Civ. Code § 815.3 (c)).
    f. Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated. (Pub. Resources Code § 5097.991).

11. Prerequisites for Certifying an Environmental Impact Report or Adopting a Mitigated Negative Declaration or Negative Declaration with a Significant Impact on an Identified Tribal Cultural Resource: An environmental impact report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:
    a. The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code sections 21080.3.1 and 21080.3.2 and concluded pursuant to Public Resources Code section 21080.3.2.
    b. The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.
    c. The lead agency provided notice of the project to the tribe in compliance with Public Resources Code section 21080.3.1 (d) and the tribe failed to request consultation within 30 days. (Pub. Resources Code § 21082.3 (d)).

    *This process should be documented in the Cultural Resources section of your environmental document.*

The NAHC's PowerPoint presentation titled, "Tribal Consultation Under AB 52: Requirements and Best Practices" may be found online at: http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation_CalEPAPDF.pdf

SB 18

SB 18 applies to local governments and requires **local governments** to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. (Gov. Code § 65352.3). Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: https://www.opr.ca.gov/docs/09_14_05_Updated_Guidelines_922.pdf

Some of SB 18's provisions include:

1. Tribal Consultation: If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. **A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe.** (Gov. Code § 65352.3 (a)(2)).
2. No Statutory Time Limit on SB 18 Tribal Consultation. There is no statutory time limit on SB 18 tribal consultation.
3. Confidentiality: Consistent with the guidelines developed and adopted by the Office of Planning and Research pursuant to Gov. Code section 65040.2, the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code sections 5097.9 and 5097.993 that are within the city's or county's jurisdiction. (Gov. Code § 65352.3 (b)).
4. Conclusion of SB 18 Tribal Consultation: Consultation should be concluded at the point in which:
    a. The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
    b. Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation. (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

Agencies should be aware that neither AB 52 nor SB 18 precludes agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52 and SB 18. For that reason, we urge you to continue to request Native American Tribal Contact Lists and "Sacred Lands File" searches from the NAHC. The request forms can be found online at: http://nahc.ca.gov/resources/forms/

NAHC Recommendations for Cultural Resources Assessments

To adequately assess the existence and significance of tribal cultural resources and plan for avoidance, preservation in place, or barring both, mitigation of project-related impacts to tribal cultural resources, the NAHC recommends the following actions:

1. Contact the appropriate regional California Historical Research Information System (CHRIS) Center (http://ohp.parks.ca.gov/?page_id=1068) for an archaeological records search. The records search will determine:
    a. If part or all of the APE has been previously surveyed for cultural resources.
    b. If any known cultural resources have been already been recorded on or adjacent to the APE.
    c. If the probability is low, moderate, or high that cultural resources are located in the APE.
    d. If a survey is required to determine whether previously unrecorded cultural resources are present.

2. If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
    a. The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.

b. The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

3. Contact the NAHC for:
   a. A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.
   b. A Native American Tribal Consultation List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.

4. Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.
   a. Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources per Cal. Code Regs., tit. 14, section 15064.5(f) (CEQA Guidelines section 15064.5(f)). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.
   b. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.
   c. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code section 7050.5, Public Resources Code section 5097.98, and Cal. Code Regs., tit. 14, section 15064.5, subdivisions (d) and (e) (CEQA Guidelines section 15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

Please contact me if you need any additional information at gayle.totton@nahc.ca.gov.

Sincerely,

Gayle Totton, M.A., PhD.
Associate Governmental Program Analyst
(916) 373-3714

cc: State Clearinghouse

## Meade, William

**From:** David Greenfader <greenfader@gmail.com>
**Sent:** Wednesday, October 11, 2017 11:56 PM
**Cc:** California Environmental Quality Act Comments
**Subject:** San Pedro HS Comp Mod Project

To Whom it May Concern,

As a homeowner across the street from the proposed development I have many concerns which were not addressed at the last I community meeting ion October 3rd:

1. Noise pollution mitigation during 3 years of construction 2. Noise caused by shifting the main Entry of the HS to 17th and S Leland. There is a significant echo on this side of the hill, has this been factored in to the assessment.
3. Noise pollution caused by then proposed taller building A 3. Light pollution caused by high voltage lighting, e.g. Halogen and other on Facing towards the homes on the west side of South Leland Street. Lights beaming into our bedrooms at night would cause significant hardship and have a significant deteriorative impact on the neighborhood.
4. During Community Meeting, traffic abatement and control. We have young children playing in the neighborhood, increased traffic means increased risk. Especially with the proposal to add the new Entry on the corner of 17th and S. Leland I propose that street humps at the least be added to S LeLand. Bumps for Leland!
5. Regarding the design, what gives me greatest pause is the fact that you are to open the campus up to spill out to S Leland for 6.

D.N.G
1523 South Leland St.
San Pedro, CA 90731

## Meade, William

**From:** Cordi Koga <cordi.koga@gmail.com>
**Sent:** Monday, October 23, 2017 7:27 PM
**To:** California Environmental Quality Act Comments
**Subject:** Trees

Those gorgeous trees are a treasure. They give such character to the campus. Please save them!

Cordi Koga
The Strings Connection
716 Deep Valley Drive
Rolling Hills Estates, CA 90274

(310) 377-0803
https://na01.safelinks.protection.outlook.com/?url=www.stringsconnection.com&data=02%7C01%7C%7Ce51fcbb15e794bf1700c08d51a86b736%7C042a40a1b1284ac48648016ffa121487%7C1%7C0%7C636444088256309606&sdata=F%2BEdKgAlj2rtzYHncOHb%2F7ma0WoV3v2vHA8NRpp0T8U%3D&reserved=0

Open Wed-Fri 1 - 6 pm
Sat 1 - 4 pm
Or by appointment

## Meade, William

**From:** Melanie Jones <mjones1580@cox.net>
**Sent:** Monday, October 23, 2017 3:21 PM
**To:** California Environmental Quality Act Comments
**Subject:** trees adjacent to SPHS

Hello:

I understand the stand of mature trees that line the parking lot on the 17th St. side of the SPHS campus are slated to be removed as part of a construction project. I object! It's a shame to kill such beautiful, large trees. I am sure they contribute significantly to mitigating noise from the campus and softening the interface between that facility and the neighborhood. Moreover, they contribute to air quality by filtering carbon dioxide out of the atmosphere and adding oxygen. Aside from these practical benefits, they add beauty and grace to the street. Please reconsider destroying these trees. They are important members of the community.

Thank you,
Melanie Jones
619 W. 38th St.
San Pedro, CA 90731

## Meade, William

**From:** jim pike <jimpikeo@gmail.com>
**Sent:** Tuesday, October 24, 2017 5:12 AM
**To:** California Environmental Quality Act Comments
**Subject:** SPHS comp modernization project

Dear CEQA:
As a neighbor living adjacent to the high school I feel that the removal of the trees on the corner of Leland and 17th street will be too much of a loss of shade and green for the community. to replace the current trees with merely 6 new ones will not be sufficient. I ask that if all of the trees cannot be saved, the trees are replaced in full. Perhaps new trees could be planted across the street in front of the homes on 17th street to provide shade and a screen for the homes that have been affected by the current root problem so that the shade and improved air quality trees provide is not lost to the community. I would also like to comment that I appreciate the preservation of the historical value of the school in the organization proposed plan and respect for the arte moderne look!!
Thank you,
Jim Pike, concerned resident, 1055 w 17th street, 90731

Sent from my iPhone

## Meade, William

**From:** Amy Thornberry <amy7733@sbcglobal.net>
**Sent:** Thursday, October 12, 2017 11:53 AM
**To:** California Environmental Quality Act Comments
**Subject:** San Pedro HS modernization/construction project

Dear ceqa:
I am a San Pedro High School parent and a resident living adjacent to the proposed project. I love the plan to preserve the historical architecture and design of the school. It truly adds value to the community! Kudos to the architect for making this a priority. My biggest concerns are the proper protection from lead, arsenic, and asbestos during the phases of demolition and preservation/replacement of trees. I'm not sure wetting the dust down and trucking it out as described at the community meeting will be adequate to keep our students, faculty, and staff out of harms way. It seems to me the demolition areas will need to be contained with tentlike structures. My other largest concern is the removal of the bank of ficus trees on the corner of Leland and 17th. I am wondering when these trees were planted and if they also might be of historical significance? I do know their roots disrupt the sidewalks and the plumbing in the area as I live adjacent to the trees. But the trees also provide shade, green beauty, and clean air. Perhaps a few of the trees could be preserved? or replacement trees could be provided to the neighbors who will lose their green beauty. Landscaping of the new school with the inclusion of new shade trees is of utmost importance, choosing of course fast growing trees with non invasive root systems! And as I stated already, protection from the lead, asbestos, and arsenic present in the ground to be dug is a top priority as well.
Thank you,
Amy Thornberry
1055 w 17th st
San Pedro , ca 90731

Sent from my iPhone

COMMENT CARD / *TARJETA DE COMENTARIO*

# Public Meeting / Reunión Pública

San Pedro High School Comprehensive Modernization Project
*Modernización Integral de la Escuela Preparatoria de San Pedro*
October 3, 2017 / *3 de Octubre 2017*

Name / Nombre: April Mayher 310-420-2060

Affiliation / Afiliación: Student & incoming student

Address / Dirección: 839 28th St S.P.

Comments / Comentarios:

Are you replumbing the old buildings. Are you getting new water fountains w/ refilable water bottle stations.

Is the flagpole all the way to 17th w/ new bricks staying? It was just redone.

Written comments must be received no later than October 28, 2017 at the following address:
*Los comentarios por escrito deben ser recibidos a más tardar el 28 de Octubre de 2017 a la siguiente dirección:*
LAUSD Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor, Los Angeles, CA 90017
Attn: Will Meade

COMMENT CARD / *TARJETA DE COMENTARIO*

# Public Meeting / Reunión Pública

San Pedro High School Comprehensive Modernization Project
*Modernización Integral de la Escuela Preparatoria de San Pedro*
October 3, 2017 / *3 de Octubre 2017*

Name / Nombre: Jacky Cheung

Affiliation / Afiliación: None

Address / Dirección: 561 W 19th Street

Comments / Comentarios: I loved the preliminary/final concept of the new modernization project. I was wondering where is the Pifi Office located in the new modern campus? Will there be any school involvement on the new murals? I wish there was more concept art of the interior in the new Administrative Building.

I loved the preliminary/final concept of the new modernization project. I was wondering where is the Pifi Office located in the new modern campus? Will there be any school involvement on the new murals? I wish there was more concept art of the interior in the new Administrative Building.

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LAUSD Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor, Los Angeles, CA 90017
Attn: Will Meade

COMMENT CARD / *TARJETA DE COMENTARIO*

# Public Meeting / Reunión Pública

San Pedro High School Comprehensive Modernization Project
*Modernización Integral de la Escuela Preparatoria de San Pedro*
October 3, 2017 / *3 de Octubre 2017*

Name / Nombre: Elizabeth Mattera, parent

Affiliation / Afiliación: Son/Student Mitchel A. Mattera

Address / Dirección: 1709 El Rey Rd., San Pedro, CA 90732

Comments / Comentarios: I think it would be wonderful if the new campus has a nice cafeteria that serves hot, healthy good meals; salad bar, etc. etc. Schools used to have this and it was really nice. Also, personally I remember it being much better than it is for the kids nowadays. — Thank you!

Written comments must be received no later than October 28, 2017 at the following address:
*Los comentarios por escrito deben ser recibidos a más tardar el 28 de Octubre de 2017 a la siguiente dirección:*
LAUSD Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor, Los Angeles, CA 90017
Attn: Will Meade

# LOS ANGELES UNIFIED SCHOOL DISTRICT SAN PEDRO HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT

## Air Quality and Greenhouse Gas Emissions Technical Report

Prepared for
Los Angeles Unified School District,
Office of Environmental Health and Safety
3333 South Beaudry Avenue 21st Floor
Los Angeles, CA 90017

May 2018

ESA

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May 2018

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# EXECUTIVE SUMMARY

## LAUSD San Pedro High School Comprehensive Modernization Project – Air Quality and Greenhouse Gas Emissions Technical Report

Los Angeles Unified School District (LAUSD) proposes a Comprehensive Modernization to San Pedro High School (Project) in the city of Los Angeles, California. The proposed Project would include renovations, modernizations, and new construction at San Pedro HS; including demolition of the Industrial Arts Building, the Shop Building, Food Service Unit, and Lunch Shelter, and removal of four portable (relocatable) buildings and one modular building. The Project would include construction of a new Band and Industrial Arts Building; Administration, Food Service, and Classroom Building to house general and specialty classrooms, administration, kitchen, dining, and support spaces; Central Plant; and lunch shelter, or lunch shelters. The new buildings would house approximately 12 new general and specialty classrooms, and support spaces. The Project includes modifications and/or upgrades to the Administration Building, the Old Gymnasium (this includes a voluntary seismic retrofit and a new wood floor in the main court), the Home Economics Building Classroom Building # 1, and Classroom Building # 2 (Science Building). Upon completion of Project construction, San Pedro HS would have 69 classrooms, consisting of 23 existing classrooms, 34 remodeled classrooms, and 12 new classrooms.

San Pedro High School is located on a 22.9-acre site in the community of San Pedro, approximately 22 miles southwest from downtown Los Angeles. Specifically, the campus is located at 1001 West 15$^{th}$ Street within the southwest portion of the City of Los Angeles. The campus comprises two city blocks and is bound by West 15$^{th}$ Street to the north, Dana Middle School immediately to the east, West 17$^{th}$ Street to the south, and South Leland Street to the west. The Assessor's Parcel Number (APN) for the Project site is 7458-024-918. The Campus is surrounded by predominately residential uses.

In accordance with the requirements under the California Environmental Quality Act (CEQA), this technical report provides an estimate of air quality and greenhouse gas emissions for the proposed Project and the potential impacts from associated construction and operational activities. The report includes the categories and types of emission sources resulting from the proposed Project, the calculation procedures used in the analysis, and any assumptions or limitations.

This report summarizes the potential for the proposed Project to conflict with an applicable air quality plan; to violate an air quality standard or threshold; to result in a cumulatively net increase of criteria pollutant emissions; to expose sensitive receptors to substantial pollutant concentrations; to create objectionable odors affecting a substantial number of people; to generate substantial greenhouse gas emissions; or to conflict with applicable greenhouse reduction plans, policies, or regulations. The findings of the analyses are as follows:

- The proposed Project would be consistent with air quality policies set forth by the LAUSD, the SCAQMD, and the Southern California Association of Governments (SCAG).
- The incremental increase in emissions from construction and operation of the proposed Project would not exceed the regional daily emission thresholds set forth by the South Coast Air Quality Management District (SCAQMD). Thus, the proposed Project would not result in a regional violation of applicable air quality standards or jeopardize the timely attainment of such standards in the South Coast Air Basin (Air Basin).
- The incremental increase in onsite emissions from construction and operation of the proposed Project would not exceed the localized significance thresholds set forth by the SCAQMD. Thus, the proposed Project would not result in a localized violation of applicable air quality standards or expose off-site receptors to substantial levels of regulated air contaminants.
- Proposed Project construction and operations would not result in significant levels of odors.
- The proposed Project would not result in a significant cumulative air quality impact.
- Greenhouse gas emissions associated with the Project would not exceed the emissions threshold of 3,000 MT $CO_2e$ annual emissions. Therefore, the Project would result in less than significant GHG emissions based on applicable thresholds of significance as evaluated in this technical report.
- The proposed Project would be consistent with greenhouse gas reduction strategies as set for by the LAUSD, SCAG, the City of Los Angeles, and the State of California.

**Table 1**, *Air Quality and Greenhouse Gas Emissions Impacts*, summarizes the Program EIR's conclusions regarding the air quality and greenhouse gas emissions impacts of the SUP, as well as the findings of this Project-specific analysis.

**TABLE 1**
**AIR QUALITY AND GREENHOUSE GAS EMISSIONS IMPACTS**

| Environmental Threshold | Program EIR Level of Impact Significance | Project-Specific Level of Impact Significance | Applicable Standard Conditions of approval (SCs) |
|---|---|---|---|
| **Would The Project:** | | | |
| **Air Quality** | | | |
| A) Conflict with or obstruct implementation of the applicable air quality plan? | Less than Significant | Less than Significant | SC-AQ-1 |
| B) Generate short-term air pollutant emissions, either directly or indirectly, that may have a significant impact on the environment? | Potentially Significant and Unavoidable | Less than Significant | SC-AQ-2<br>SC-AQ-3 |
| C) Generate long-term air pollutant emissions, either directly or indirectly, that may have a significant impact on the environment? | Less than Significant | Less than Significant | SC-AQ-2<br>SC-AQ-3 |
| D) Expose sensitive receptors to substantial pollutant concentrations? | Potentially Significant and Unavoidable | Less than Significant | SC-AQ-4 |
| E) Create objectionable odors affecting a substantial number of people? | Less than Significant | Less than Significant | SC-AQ-5 |
| **Greenhouse Gas Emissions** | | | |
| A) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment? | Less than Significant | Less than Significant | SC-GHG-1<br>SC-GHG-2<br>SC-GHG-3<br>SC-GHG-4<br>SC-GHG-5 |
| B) Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases? | Less than Significant | Less than Significant | SC-GHG-1<br>SC-GHG-2<br>SC-GHG-3<br>SC-GHG-4<br>SC-GHG-5 |

SOURCE: LAUSD SUP FEIR 2015, ESA 2017

# LAUSD SAN PEDRO HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT

## Air Quality and Greenhouse Gas Emissions Technical Report

## 1. Introduction

This air quality technical report was prepared by ESA to support an Environmental Impact Report (EIR) for the proposed San Pedro High School Comprehensive Modernization Project (proposed Project) located in the city of Los Angeles, California.

Ongoing master planning activities and facility site assessments conducted for Los Angeles Unified School District (LAUSD or District) facilities over the last several years have identified school sites throughout the District that exhibit critical physical conditions. The School Upgrade Program (SUP) implemented by LAUSD outlines a series of capital improvements intended to rehabilitate and modernize these schools so they are safe, healthy, and functional places to learn.

LAUSD prepared a Program Environmental Impact Report (SCH No. 2013111046) to evaluate the direct and indirect environmental effects of the SUP program.[1] The SUP Program EIR (Program EIR) was certified by the LAUSD Board on November 10, 2015[2].

The purpose of this report is to provide a detailed technical air quality analysis of the proposed Project. ESA conducted this air quality assessment to evaluate the potential air quality impacts associated with construction activities, mobile sources, and other aspects of the proposed Project construction that have the potential to generate criteria air pollutant emissions. The objectives of this Air Quality and Greenhouse Gas Emissions Technical Report are to:

- Evaluate the construction criteria air pollutants associated with proposed Project development and the potential for regional and localized air quality impacts based on applicable standards and thresholds;
- Evaluate greenhouse gas emissions associated with the proposed Project development;
- Provide, if needed, air quality and/or greenhouse gas emissions mitigation measures as required to meet applicable air quality and/or greenhouse gas emissions standards and

1 Los Angeles Unified School District. 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.

2 Los Angeles Unified School District, Board of Education. Regular Board Meeting -November 10, 2015. http://laschoolboard.org/11-10-15RegBd.

thresholds as specified by the South Coast Air Quality Management District (SCAQMD) and the LAUSD Standard Conditions (SCs) identified in the Program EIR.

## 1.1 Existing Conditions

San Pedro High School (San Pedro HS or Campus) is an operational high school serving students in grades 9 through 12. The campus sits on a multi-tiered hillside overlooking the Los Angeles harbor with the highest elevation on the southwest. The new Gymnasium completed in 2005, play areas and athletic fields dominate the lower level, and separate the San Pedro High School campus from adjacent Dana Middle School campus. West of the lower level is the main plateau which consists of three original permanent buildings: Administrative and Classroom Building, Home Economics Building, and Classroom Building #1. The Administrative Building has side stair access on the north side from 15th Street, and an original entry courtyard to the East. At an intermediate level facing 17th Street is Classroom Building #2 (Science Building).

West and uphill from the main Administrative Building is the upper level of the campus where the Food Service Unit and the Auditorium Building are located. There are several portable classrooms located in the northwest end and in the central part of the campus. South of the Auditorium are two permanent buildings, the Industrial Arts Building, and the Shop Building.

A Preliminary Environmental Assessment (PEA) Report for the proposed Project was conducted. The PEA involved a thorough field sampling and analysis program to determine whether historical uses have resulted in hazardous substances at the Project site.[3] Soil samples were taken from locations on the Project site proposed for demolition and were analyzed for various hazardous substances. The results of the laboratory analysis showed levels of arsenic, lead, and/or organochlorine pesticides (OCP) concentrations were above residential screening thresholds in shallow soils. A Remedial Action Workplan (RAW), describing the contamination, excavation dimensions, methodology, transportation and disposal, confirmation sampling plan, methods to ensure worker and public health safety, and cleanup goals, has been prepared. The contaminated soils would be removed prior to construction of each phase with methods intended to reduce dust emissions.

## 1.2 Project Description

San Pedro HS is located on a 22.9-acre site in the community of San Pedro, approximately 22 miles southwest from downtown Los Angeles and approximately 1.45 miles from the Pacific Ocean (**Figure 1**, *Project Vicinity*). Specifically, the campus is located at 1001 West 15th Street within the southwest portion of the City of Los Angeles. The campus comprises two city blocks and is bound by West 15th Street to the north, Dana Middle School immediately to the east, West 17th Street to the south, and South Leland Street to the west (**Figure 2**, *Project Location*). The Assessor's Parcel Number (APN) for the Project site is 7458-024-918. Project implementation would not occur across the entire school campus, but on selected areas undergoing renovation.

3 EnSafe Inc., Draft Preliminary Environmental Assessment Equivalent Report for San Pedro High School Comprehensive Modernization Project, June 2017.

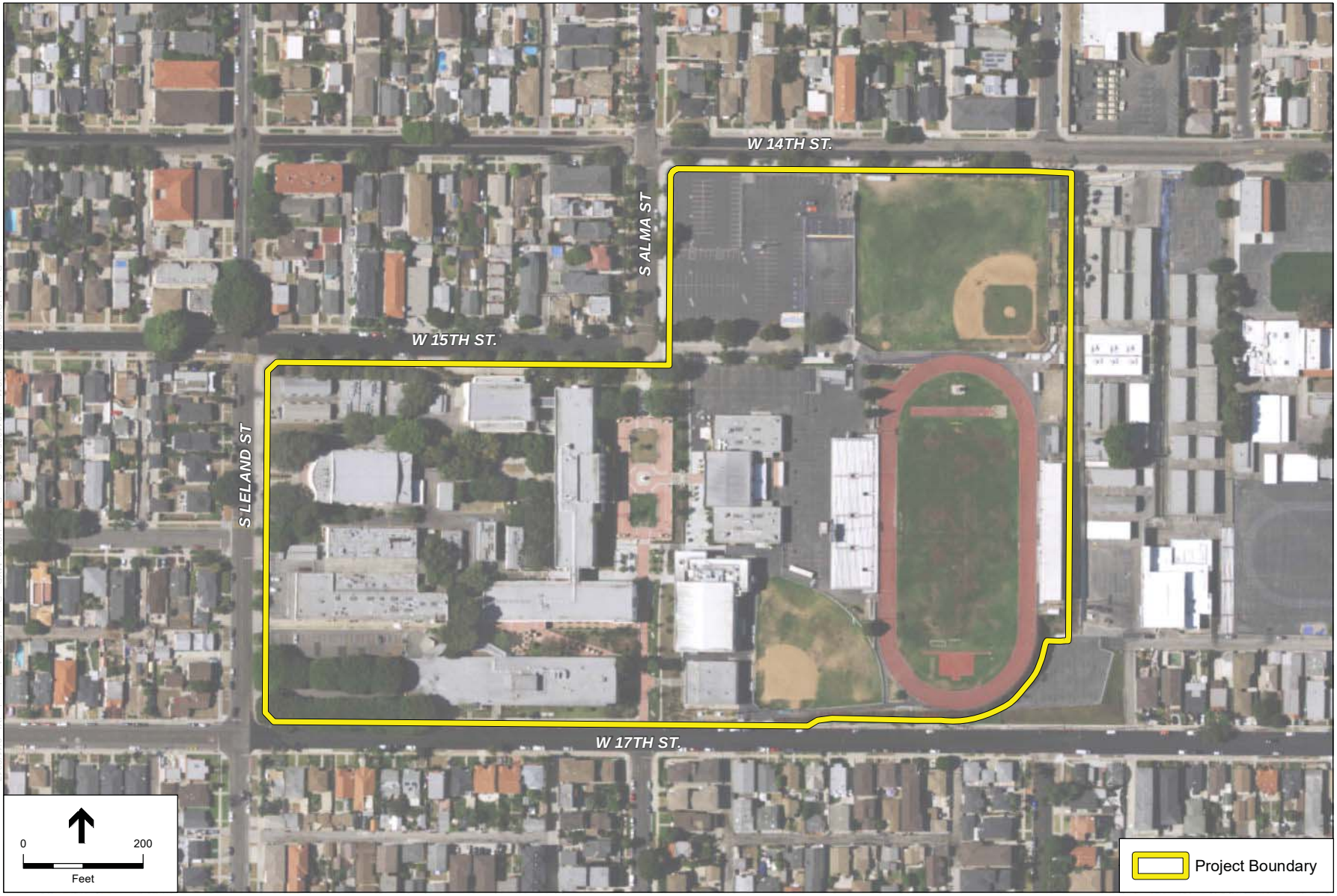



SOURCE: Los Angeles County GIS.

San Pedro High School Comprehensive Modernization Project . 211085.31

**Figure 1**

Regional Location




SOURCE: ESRI

San Pedro High School Comprehensive Modernization Project . 211085.31

**Figure 2**
Project Location

The proposed Project would include renovations, modernizations, and new construction at San Pedro HS; including demolition of the Industrial Arts Building, the Shop Building, Food Service Unit, and Lunch Shelter, and removal of four portable (relocatable) buildings and one modular building. The Project would include construction of a new Band and Industrial Arts Building; Administration, Food Service, and Classroom Building to house general and specialty classrooms, administration, kitchen, dining, and support spaces; Central Plant; and lunch shelter, or lunch shelters. The new buildings would house approximately 12 new general and specialty classrooms, and support spaces. The Project includes modifications and/or upgrades to the Administration Building, the Old Gymnasium (this includes a voluntary seismic retrofit and a new wood floor in the main court), the Home Economics Building Classroom Building # 1, and Classroom Building # 2 (Science Building). Upon completion of Project construction, San Pedro HS would have 69 classrooms, consisting of 23 existing classrooms, 34 remodeled classrooms, and 12 new classrooms.

The proposed Project would result in demolition of and/or modifications to existing buildings, potentially including historic buildings and resources. **Table 2**, *Characteristics of Existing Buildings* shows details about the characteristics of the existing buildings to be demolished and/or renovated. The Project would be designed to preserve and enhance significant (primary) character-defining features associated with the campus. Additionally, the proposed Project would be designed and implemented in a manner that complies with the LAUSD Design Guidelines and Treatment Approaches for Historic Schools.[4]

As outlined in Table 2, the proposed Project would include demolition of the following facilities:

- Industrial Arts Building
- Shop Building
- Food Service Unit
- Four relocatable or portable buildings and one modular building

The proposed Project would include construction of the following facilities that would be designed, constructed, and furnished/equipped to current code requirements and District design standards:

- Band and Industrial Arts Building (Building B)
- Lunch Shelter or Lunch Shelters
- Administration, Food Service, and Classroom Building (Building A)
- Central Plant

[4] LAUSD. January 2015. LAUSD Design Guidelines and Treatment Approaches for Historic Schools. Los Angeles, CA.

**TABLE 2**
**CHARACTERISTICS OF EXISTING BUILDINGS**

| Current Building Name (Building Number and/or ID) a, b | Year Constructed c | Alterations/ Repairs | Historic Status | Project Activity | Removal (sf) | New Construction (sf) | Remodel (sf) |
|---|---|---|---|---|---|---|---|
| Administration Building (Building 1, ID 22037) | 1935, 1997 | c1964, 1981, 2013 | Significant (Primary) | Renovate | - | - | 45,964 |
| Gymnasium/Physical Education Building (Building 2, ID 22223) | c1936 | 2010 | Significant (Primary) | Renovate | - | - | 23,094 |
| Classroom Building #1 (English Building) (Building 3, ID 31223) | 1938 | 1981, 2013 | Significant (Primary) | Renovate | - | - | 28,151 |
| Industrial Arts Building (Building 4, ID 21993) | 1935 | 1965, 1969 | Contributing (Tertiary) | Demolish | 18,432 | - | - |
| Auditorium (Building 5, ID 22080) | c1936 | | Significant (Primary) | ADA Upgrades | | | |
| Home Economics Building (Building 6, ID 21037) | 1935 | 1968, 1981, 2013 | Contributing (Secondary) | Renovate | | | 18,610 |
| Girls' Gymnasium (Building 7, ID 20816) | 1960 | | Non-Contributing | - | - | - | - |
| Classroom Building #2 (Science Building) (Building 8, 20685) | 1961 | 1999 | Non-Contributing | Minor Improvements | - | - | 46,218 |
| Shop Building (Building 9, ID 21093) | 1969 | | Non-Contributing | Demolish | 15,806 | - | - |
| Lunch Shelter (Building 10, ID 21892) | 1941 | | Non-Contributing | Demolish | 1.850 | - | - |
| Arcade 1 (ID 53263) | | | Non-Contributing | - | | | |
| Arcade 2 (ID 53282) | | | Non-Contributing | - | | | |
| Arcade 3 (ID 53283) | | | Non-Contributing | - | | | |
| Arcade 4 (ID 54867) | 1964 | | Non-Contributing | - | | | |
| Arcade 5 (ID 54868) | 1964 | | Non-Contributing | - | | | |
| Food Service Unit (Building 13, ID 22117) | 1961 | | Non-Contributing | Demolish | 444 | - | - |
| Flammable Storage (ID 21897) | 1953 | | Non-Contributing | - | | | |
| Modular BB-182 (ID 22898) | 1973 | | Non-Contributing | Remove | 3,479 | | |
| Portable A-2241 (Building 38, ID 21833) | 1999 | | Non-Contributing | Remove | 960 | | |

| Current Building Name (Building Number and/or ID) a, b | Year Constructed c | Alterations/ Repairs | Historic Status | Project Activity | Removal (sf) | New Construction (sf) | Remodel (sf) |
|---|---|---|---|---|---|---|---|
| Portable A-2281 (ID 22515) | | | Non-Contributing | Remove | 960 | | |
| Portable AA-1007 (ID 22385) | 1950 | | Non-Contributing | Remove | 1,692 | | |
| Portable AA-2082 (ID 21557) | 1960 | | Non-Contributing | Remove | 1,836 | | |
| Kiosk (ID 36342) | | | Non-Contributing | | | | |
| New Gymnasium (Building 42, ID 29254) | 2005 | | Non-Contributing | | | | |
| Grandstand (home) (Building 36, ID 31242) | 2009 | | Non-Contributing | | | | |
| Grandstand (visitor) (ID 31243) | 2009 | | Non-Contributing | | | | |
| Electrical Building (ID 53302) | | | Non-Contributing | | | | |
| Sanitary Building 1 (ID 26248) | 2000 | | Non-Contributing | | | | |
| Sanitary Building 2 (ID 29186) | 2000 | | Non-Contributing | | | | |
| Snack Shack (ID 53303) | | | Non-Contributing | | | | |

SOURCE: LAUSD, June 2017.
NOTES:
a. Building numbers correspond to the numbering system shown in architectural drawings dated September 11, 2017.
b. ID numbers were provided by LAUSD.
c. Construction dates provided by LAUSD.

Modernization, upgrades, and seismic retrofits would be completed for the following buildings:

- Home Economics Building
- Administration Building
- Classroom Building # 1

More specifically, the proposed modifications to interior and exterior spaces of the Administration Building, Classroom Building No. 1, and Home Economics Building include:

- While the corridor configuration would remain the same, the classrooms and offices would be resized through the demolition and reconstruction of interior walls on the first and second floors of the Administration Building (Building 1), Classroom Building No. 1 (Building 3), and Home Economics Building (Building 6).

- The basement of the Administration Building (Building 1) would be reconfigured to accommodate new facilities offices and storage space.

- Original stairwells and existing concrete stairs would remain in place in all three buildings.

- Decorative murals located in the second floor library of the Administration Building (Building 1) would be removed, stored, and reinstalled upon completion of retrofit in accordance with a mural conservation plan.

- Breezeway connecting the Administration Building (Building 1) and Classroom Building No. 1 (Building 3), and bridge connecting the Administration Building (Building 1) and Home Economics Building (Building 6) would be retained.

- A canopy would be installed over the bridge connecting the Administration Building (Building 1) and Home Economics Building (Building 6); and

- The administration area would move to the second floor of the new Building A.

Upgrades to the Physical Education Building (Old Gymnasium) would be less extensive than the improvements to the three buildings undergoing modernization and would include voluntary seismic retrofits, a new wood floor in the main court, and American with Disabilities Act (ADA) upgrades. Seismic retrofitting would be completed in compliance with the seismic safety requirements of the LAUSD Supplemental Geohazard Assessment Scope of Work, California Building Code, Division of State Architect, and CDE. In particular, the proposed modifications to the Old Gymnasium/Physical Education Building's interior and exterior spaces include:

- Remodeling of male and female locker rooms, restrooms, and shower areas providing ADA upgrades as a result of seismic upgrades that will include reconfiguration of stalls, installation of seating, and widening of doorways;

- Existing interior stairwells and stairs would remain in place;

- Select reconstruction of interior walls for seismic upgrades;

- Telescopic bleachers would be removed and refurbished as needed, stored offsite, and reinstalled

- Exterior alterations include cleaning and repainting the existing walls, doors, windows, louvers, frames, vents, and trim

- Construction of two new ADA ramps on the east side of the building as a result of seismic upgrades.

The Project includes American with Disabilities Act (ADA) upgrades in the Auditorium. Auditorium modifications and ADA improvements would include:

- Interior ADA access improvements including the following:
    - replacing the stairs with a new wheelchair lift at the front of the stage closest to the south wall;
    - installation of one row of new seating at the front and at the rear of the auditorium and reconditioning and/or replacement of damaged existing seating; and,
    - remodeling the existing restrooms to include accessible stalls
- Exterior alterations include cleaning and repainting the existing walls, doors, windows louvers, frames, vents, and trim
- Exterior ADA access improvements include the following:
    - improvements to the main entry; and
    - construction of two new ramps.

Upgrades to Classroom Building #2 (Science Building) include minor modernization to convert four science labs into general classrooms, reconfiguration of space for a Small Learning Community (SLC), and American with Disabilities Act (ADA) upgrades that include a new elevator. Classroom Building # 2 (Science Building) would also receive an exterior facelift to make the building compatible with the architectural features of the historic buildings and the designs for the new buildings.

Upgrades that would be completed throughout the campus include:

- Site-wide infrastructure, including electrical, storm drain, gas, sewer, and water improvements
- Site-wide upgrades to remove identified and prioritized barriers to program accessibility
- Student drop off area, landscape, hardscape, and exterior paint

Improvements required by the ADA, Division of the State Architect, CEQA, and the Office of the Independent Monitor for program accessibility, would ensure compliance with local, state, and/or federal facilities requirements.

### 1.2.1 Contaminated Soil Removal

As previously stated, lead, arsenic, and OCP were found in shallow soils on the Project site in excess of residential screening levels. Prior to construction of each phase, contaminated soil would be removed from the site and replaced with clean fill dirt. EnSafe, Inc. prepared a RAW to remove approximately 226 cubic yards of soil to meet cleanup goals. For the purposes of this analysis, a conservative estimate of up to 500 cubic yards of soil is used. Soil removal duration would be approximately one week over the entire construction duration and would require haul trucks and off-road equipment, such as small excavators and loaders to handle and transport soils

to haul trucks or potentially to temporary stockpiles. If soil is temporarily stockpiled, it would be covered with plastic and secured with sandbags in accordance with SCAQMD regulations. Haul trucks would transport contaminated soil to a licensed receiver facility in Buttonwillow, California. Impacts related to the removal of contaminated soil is discussed in section 4.8, Hazards and Hazardous Materials of the Project Initial Study located in Appendix A of the Draft EIR and is therefore not duplicated herein.

## 1.3 Updated and Project-Specific Conditions

### 1.3.1 Regional Air Quality

The Project site is located within the South Coast Air Basin (Air Basin). The distinctive climate of the Air Basin is determined primarily by its terrain and geographical location. Regional meteorology is dominated by a persistent high-pressure area which commonly resides over the eastern Pacific Ocean. Seasonal variations in the strength and position of this pressure cell cause changes in the weather patterns of the area. Warm summers, mild winters, infrequent rainfall, moderate daytime on-shore breezes, and moderate humidity characterize local climatic conditions. This normally mild climatic condition is occasionally interrupted by periods of hot weather, winter storms, and hot easterly Santa Ana winds.

The Air Basin is an area of high air pollution potential, particularly from June through September. This condition is generally attributed to the large amount of pollutant emissions, light winds and shallow vertical atmospheric mixing. This frequently reduces pollutant dispersion, thus causing elevated air pollution levels. Pollutant concentrations in the Air Basin vary with location, season and time of day. Ozone concentrations, for example, tend to be lower along the coast, higher in the near inland valleys and lower in the far inland areas of the Air Basin and adjacent desert.

Certain air pollutants have been recognized to cause notable health problems and consequential damage to the environment either directly or in reaction with other pollutants, due to their presence in elevated concentrations in the atmosphere. Such pollutants have been identified and regulated as part of the overall endeavor to prevent further deterioration and facilitate improvement in air quality. The following pollutants are regulated by the United States Environmental Protection Agency (US EPA) and are subject to emissions control requirements adopted by federal, state and local regulatory agencies. These pollutants are referred to as "criteria air pollutants" as a result of the specific standards, or criteria, which have been adopted for them. A brief description of the health effects of these criteria air pollutants are provided below.

**Ozone ($O_3$)**: $O_3$ is a secondary pollutant formed by the chemical reaction of Volatile Organic Compounds (VOCs) and Nitrogen Oxides ($NO_X$) under favorable meteorological conditions such as high temperature and stagnation episodes. $O_3$ concentrations are generally highest during the summer months when direct sunlight, light wind, and warm temperature conditions are favorable. An elevated level of $O_3$ irritates the lungs and breathing passages, causing coughing and pain in the chest and throat, thereby increasing susceptibility to respiratory infections and reducing the ability to exercise. Effects are more severe in people with asthma and other respiratory ailments. Long-term exposure may lead to scarring of lung tissue and may lower lung efficiency.

**Volatile Organic Compounds (VOCs).** VOCs are typically formed from combustion of fuels and/or released through evaporation of organic liquids. These are compounds comprised primarily of atoms of hydrogen and carbon. Internal combustion associated with motor vehicle usage is the major source of hydrocarbons, as are architectural coatings. Emissions of VOCs themselves are not "criteria" pollutants; however, they contribute with $NO_X$ to formation of $O_3$ and are regulated as $O_3$ precursor emissions.

**Nitrogen Dioxide ($NO_2$) and Nitrogen Oxides ($NO_X$)**: $NO_X$ is a term that refers to a group of compounds containing nitrogen and oxygen. The primary compounds of air quality concern include $NO_2$ and nitric oxide (NO), which can quickly oxidize in the atmosphere to form $NO_2$. Ambient air quality standards have been promulgated for $NO_2$, which is a reddish-brown, reactive gas. The principle form of $NO_X$ produced by combustion is NO, but NO reacts quickly in the atmosphere to form $NO_2$, creating the mixture of NO and $NO_2$ referred to as $NO_X$. Major sources of $NO_X$ emissions include power plants, large industrial facilities, and motor vehicles. Emissions of $NO_X$ are a precursor to the formation of ground-level ozone. $NO_2$ can potentially irritate the nose and throat, aggravate lung and heart problems, and may increase susceptibility to respiratory infections, especially in people with asthma. According to the California Air Resources Board (CARB), "$NO_2$ is an oxidizing gas capable of damaging cells lining the respiratory tract. Exposure to $NO_2$ along with other traffic-related pollutants, is associated with respiratory symptoms, episodes of respiratory illness and impaired lung functioning. Studies in animals have reported biochemical, structural, and cellular changes in the lung when exposed to $NO_2$ above the level of the current state air quality standard. Clinical studies of human subjects suggest that $NO_2$ exposure to levels near the current standard may worsen the effect of allergens in allergic asthmatics, especially in children."[5] $NO_2$ also contributes to the formation of particulate matter. The terms "$NO_X$" and "$NO_2$" are sometimes used interchangeably. However, the term "$NO_X$" is primarily used when discussing emissions, usually from combustion-related activities. The term "$NO_2$" is primarily used when discussing ambient air quality standards. More specifically, $NO_2$ is regulated as a criteria air pollutant under the Clean Air Act and subject to the ambient air quality standards, whereas $NO_X$ and NO are not. In cases where the thresholds of significance, or impact analyses are discussed in the context of $NO_X$ emissions, it is based on the conservative assumption that all $NO_X$ emissions would oxidize in the atmosphere to form $NO_2$.

**Carbon Monoxide (CO)**: Carbon monoxide is primarily emitted from combustion processes and motor vehicles due to incomplete combustion of fuel. Elevated concentrations of CO weaken the heart's contractions and lower the amount of oxygen carried by the blood. It is especially dangerous for people with chronic heart disease. Inhalation of CO can cause nausea, dizziness, and headaches at moderate concentrations and can be fatal at high concentrations.

**Sulfur Dioxide ($SO_2$)**: Major sources of $SO_2$ include power plants, large industrial facilities, diesel vehicles, and oil-burning residential heaters. Emissions of sulfur dioxide aggravate lung diseases, especially bronchitis. It also constricts the breathing passages, especially in asthmatics and people involved in moderate to heavy exercise. Sulfur dioxide potentially causes wheezing,

5 California Air Resources Board, "Nitrogen Dioxide – Overview," http://www.arb.ca.gov/research/aaqs/caaqs/no2-1/no2-1.htm. Accessed December 2017.

shortness of breath, and coughing. High levels of particulates appear to worsen the effect of sulfur dioxide, and long-term exposures to both pollutants leads to higher rates of respiratory illness.

**Particulate Matter (PM10 and PM2.5)**: The human body naturally prevents the entry of larger particles into the body. However, small particles including fugitive dust, with an aerodynamic diameter equal to or less than ten microns (PM10) and even smaller particles with an aerodynamic diameter equal to or less than 2.5 microns (PM2.5), can enter the body and are trapped in the nose, throat, and upper respiratory tract. These small particulates could potentially aggravate existing heart and lung diseases, change the body's defenses against inhaled materials, and damage lung tissue. The elderly, children, and those with chronic lung or heart disease are most sensitive to PM10 and PM2.5. Lung impairment can persist for two to three weeks after exposure to high levels of particulate matter. Some types of particulates could become toxic after inhalation due to the presence of certain chemicals and their reaction with internal body fluids. The elderly, children, and those with chronic lung, or heart, disease are most sensitive to PM10 and PM2.5. In children, studies have shown associations between particulate matter exposure and reduced lung function and increased respiratory symptoms and illnesses.[6] Lung impairment can persist for two to three weeks after exposure to high levels of particulate matter. Some types of particulates could become toxic after inhalation due to the presence of certain chemicals and their reaction with internal body fluids.

**Lead (Pb)**: Lead is emitted from industrial facilities and from the sanding or removal of old lead-based paint. Smelting or processing the metal is the primary source of lead emissions, which is primarily a regional pollutant. Lead affects the brain and other parts of the body's nervous system. Exposure to lead in very young children impairs the development of the nervous system, kidneys, and blood forming processes in the body.

## 1.3.2 Local Air Quality

### *Existing Ambient Air Quality in the Project Area*

The SCAQMD maintains a network of air quality monitoring stations located throughout the Air Basin to measure ambient pollutant concentrations. The monitoring area most representative of the Project site is the South Los Angeles County Coastal Monitoring Area (Station 033). Criteria pollutants monitored at this station include $O_3$, $NO_2$, CO, $SO_2$, and PM10. Station 077 monitors PM10, PM2.5, and Pb. The most recent data available from the SCAQMD for these monitoring stations are from years 2012 to 2016.[7] The pollutant concentration data for these years are summarized in **Table 3,** *Pollutant Standards and Ambient Air Quality Data from Representative Monitoring Station*.

### *Sensitive Receptors*

Certain population groups, such as children, elderly, and acutely and chronically ill persons (especially those with cardio-respiratory diseases), are considered more sensitive to the potential

6 California Air Resources Board, "Particulate Matter – Overview," http://www.arb.ca.gov/research/aaqs/caaqs/pm/pm.htm. Accessed December 2017.

7 South Coast Air Quality Management District, Historical Data by Year, http://www.aqmd.gov/home/library/air-quality-data-studies/historical-data-by-year. Accessed December 2017.

effects of air pollution than others. The nearest sensitive receptors are the existing students at San Pedro High School, Dana Middle School (located approximately 400 feet east of the nearest construction activity area), and residential uses surrounding the school (located as near as 70 feet from construction activity).

All other air quality sensitive receptors are located at greater distances from the Project site, and would be less impacted by Project emissions.

### 1.3.3 Existing Greenhouse Gas Environment

#### *Global Climate Change*

Global climate change refers to changes in average climatic conditions on Earth as a whole, including changes in temperature, wind patterns, precipitation and storms. Historical records indicate that global climate changes have occurred in the past due to natural phenomena; however, data indicates that the current global conditions differ from past climate changes in rate and magnitude. The current changes in global climate have been attributed to anthropogenic (human-caused) activities by the Intergovernmental Panel on Climate Change (IPCC).[8] The term greenhouse gas (GHG) refers to gases that trap long-wave radiation or heat in the atmosphere, which heats the surface of the Earth. Without human intervention, the Earth maintains an approximate balance between the GHG emissions in the atmosphere and the storage of GHGs in the oceans and terrestrial ecosystems. GHGs are the result of both natural and anthropogenic activities. Forest fires, decomposition, industrial processes, landfills, and consumption of fossil fuels for power generation, transportation, heating, and cooking are the primary sources of GHG emissions.

**TABLE 3**
**POLLUTANT STANDARDS AND AMBIENT AIR QUALITY DATA FROM REPRESENTATIVE MONITORING STATION**

| Pollutant/Standard [a] | 2012 | 2013 | 2014 | 2015 | 2016 |
|---|---|---|---|---|---|
| $O_3$ (1-hour) | | | | | |
| Maximum Concentration (ppm) | 0.080 | 0.090 | 0.087 | 0.087 | 0.079 |
| Days > CAAQS (0.09 ppm) | 0 | 0 | 0 | 0 | 0 |
| $O_3$ (8-hour) | | | | | |
| Maximum Concentration (ppm) | 0.066 | 0.069 | 0.072 | 0.066 | 0.059 |
| 4th High 8-hour Concentration (ppm) | 0.054 | 0.057 | 0.061 | 0.056 | 0.055 |
| Days > CAAQS (0.070 ppm) | 0 | 0 | 1 | 0 | 0 |
| Days > NAAQS (0.070 ppm) | 0 | 0 | 1 | 0 | 0 |
| $NO_2$ (1-hour) | | | | | |
| Maximum Concentration (ppm) | 0.0978 | 0.0813 | 0.1359 | 0.1018 | 0.0756 |
| 98th Percentile Concentration (ppm) | 0.0774 | 0.0713 | 0.0848 | 0.0644 | 0.0663 |
| $NO_2$ (Annual) | | | | | |
| Annual Arithmetic Mean (0.030 ppm) | 0.0253 | 0.0215 | 0.207 | 0.0198 | 0.0185 |

8 Intergovernmental Panel on Climate Change, Climate Change 2007: The Physical Science Basis, Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change, Summary for Policy Makers, 2007, https://www.ipcc.ch/report/ar4/wg1/.

| Pollutant/Standard [a] | 2012 | 2013 | 2014 | 2015 | 2016 |
|---|---|---|---|---|---|
| CO (1-hour) | | | | | |
| Maximum Concentration (ppm) | -- | -- | 4.0 | 3.3 | 3.3 |
| CO (8-hour) | | | | | |
| Maximum Concentration (ppm) | 2.6 | 2.6 | 2.6 | 2.2 | 2.2 |
| $SO_2$ (1-hour) | | | | | |
| Maximum Concentration (ppm) | 0.0227 | 0.0151 | 0.0147 | 0.0375 | 0.0178 |
| 99th Percentile Concentration (ppm) | 0.0213 | 0.0116 | 0.0101 | 0.0118 | 0.0120 |
| PM10 (24-hour)[b] | | | | | |
| Maximum Concentration (µg/m$^3$) | 54.0 | 54.0 | 59.0 | 80.0 | 75 |
| Est. Days > CAAQS (50 µg/m$^3$) | 1 | 1 | 2 | 6 | 8 |
| Est. Days > NAAQS (150 µg/m$^3$) | 0 | 0 | 0 | 0 | 0 |
| PM10 (Annual Average) | | | | | |
| Annual Arithmetic Mean (20 µg/m$^3$) | 25.5 | 27.3 | 26.6 | 31.5 | 31.9 |
| $PM_{2.5}$ (24-hour) | | | | | |
| Maximum Concentration (µg/m$^3$) | 46.7 | 42.9 | 52.2 | 48.3 | 28.93 |
| 98th Percentile Concentration (µg/m$^3$) | 25.1 | 24.6 | 27.2 | 31.2 | 22.05 |
| Est. Days > NAAQS (35 µg/m$^3$) | 4 | 1 | 2 | 4 | 0 |
| $PM_{2.5}$ (Annual) | | | | | |
| Annual Arithmetic Mean (12 µg/m$^3$) | 10.57 | 10.97 | 10.72 | 10.26 | 9.62 |
| Lead | | | | | |
| Maximum 30-day average (µg/m$^3$) | 0.007 | 0.012 | 0.012 | 0.010 | 0.008 |

[a] ppm = parts per million; µg/m$^3$ = micrograms per cubic meter

[b] PM10 monitored at Station 033 years 2015 and 2016 and at Station 077 years 2012 – 2014.

SOURCES: SCAQMD, 2017.

The Federal Government and State of California recognized that anthropogenic GHG emissions are contributing to changes in the global climate, and that such changes are having and will have adverse effects on the environment, the economy, and public health. While worldwide contributions of GHG emissions are expected to have widespread consequences, it is not possible to link particular changes to the environment of California, or elsewhere, to GHGs emitted from a particular source or location. In other words, emissions of GHGs have the potential to cause global impacts, rather than local impacts. Increased concentrations of GHGs in the Earth's atmosphere have been linked to global climate change and such conditions as rising surface temperatures, melting icebergs and snowpack, rising sea levels, and the increased frequency and magnitude of severe weather conditions. Existing climate change models also show that climate warming portends a variety of impacts on agriculture, including loss of microclimates that support specific crops, increased pressure from invasive weeds and diseases, and loss of productivity due to changes in water reliability and availability. In addition, rising temperatures and shifts in microclimates associated with global climate change are expected to increase the frequency and intensity of wildfires.

State law defines GHGs to include the following compounds: carbon dioxide ($CO_2$), methane ($CH_4$), nitrous oxide ($N_2O$), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur

hexafluoride ($SF_6$).[9] The most common GHG that results from human activity is $CO_2$, which represents 76 percent of total anthropogenic GHG emissions in the atmosphere (as of 2010 data),[10] followed by $CH_4$ and $N_2O$. Scientists have established a Global Warming Potential (GWP) to gauge the potency of each GHG's ability to absorb and re-emit long-wave radiation. The GWP of a gas is determined using $CO_2$ as the reference gas with a GWP of 1 over 100 years. For example, a gas with a GWP of 10 is 10 times more potent than $CO_2$ over 100 years. The sum of each GHG multiplied by its associated GWP is referred to as carbon dioxide equivalents ($CO_2e$). The measurement unit $CO_2e$ is used to report the combined potency of GHG emissions.

These GWP ratios are available from the IPCC. Historically, GHG emission inventories have been calculated using the GWPs from the IPCC's Second Assessment Report (SAR). In 2007, the IPCC updated the GWP values based on the latest science available at the time in its Fourth Assessment Report (AR4). The updated GWPs in the IPCC AR4 have begun to be used in recent GHG emissions inventories. In 2013, the IPCC again updated the GWP values based on the latest science in its Fifth Assessment Report (AR5).[11] However, United Nations Framework Convention on Climate Change (UNFCCC) reporting guidelines for national inventories require the use of GWP values from the IPCC Fourth Assessment Report (AR4). To comply with international reporting standards under the UNFCCC, official emission estimates for California and the U.S. are reported by the United States using AR4 GWP values, which have replaced the previously required use of IPCC Second Assessment Report (SAR) GWP values. Therefore, statewide and national GHG inventories have not yet updated their GWP values to the AR5 values, and they continue to use the AR4 GWPs. By applying the GWP ratios, project-related $CO_2e$ emissions can be tabulated in metric tons per year. Typically, the GWP ratio corresponding to the warming potential of $CO_2$ over a 100-year period is used as a baseline. Compounds that are regulated as GHGs are discussed below.

**Carbon Dioxide ($CO_2$):** $CO_2$ is the most abundant GHG in the atmosphere and is primarily generated from fossil fuel combustion from stationary and mobile sources. $CO_2$ is the reference gas (GWP of 1) for determining the GWPs of other GHGs.

**Methane ($CH_4$):** $CH_4$ is emitted from biogenic sources (i.e., resulting from the activity of living organisms), incomplete combustion in forest fires, landfills, manure management, and leaks in natural gas pipelines. The GWP of $CH_4$ is 21 in the IPCC SAR, 25 in the IPCC AR4, and 28 in the IPCC AR5.

**Nitrous Oxide ($N_2O$):** $N_2O$ produced by human-related sources including agricultural soil management, animal manure management, sewage treatment, mobile and stationary combustion

9 CEQA Guidelines Section 15364.5; Health and Safety Code, Section 38505(g).

10 Intergovernmental Panel on Climate Change, Climate Change 2014: Synthesis Report. Contribution of Working Groups I, II and III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change, 2014, https://www.ipcc.ch/pdf/assessment-report/ar5/syr/AR5_SYR_FINAL_All_Topics.pdf. Accessed December 2017.

11 Intergovernmental Panel on Climate Change, Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change: Chapter 8: Anthropogenic and Natural Radiative Forcing, 2013, https://www.ipcc.ch/pdf/assessment-report/ar5/wg1/WG1AR5_Chapter08_FINAL.pdf. Accessed: December 2017.

of fossil fuel, adipic acid production, and nitric acid production. The GWP of $N_2O$ is 310 in the IPCC SAR, 298 in the IPCC AR4, and 265 in the IPCC AR5.

**Hydrofluorocarbons (HFCs):** HFCs are fluorinated compounds consisting of hydrogen, carbon, and fluorine. They are typically used as refrigerants in both stationary refrigeration and mobile air conditioning systems.

**Perfluorocarbons (PFCs):** PFCs are fluorinated compounds consisting of carbon and fluorine. They are primarily created as a byproduct of aluminum production and semiconductor manufacturing.

**Sulfur Hexafluoride ($SF_6$):** $SF_6$ is a fluorinated compound consisting of sulfur and fluoride. It is a colorless, odorless, nontoxic, nonflammable gas. It is most commonly used as an electrical insulator in high voltage equipment that transmits and distributes electricity.

The California Air Resources Board (CARB) compiles the State's GHG emissions inventory. The most updated inventory is referred to as the 2017 edition, which reports the State's GHG emissions inventory from calendar year 2015. Based on the 2015 GHG inventory data (i.e., the latest year for which data are available from CARB), California emitted 440.4 million metric tons of $CO_2e$ ($MMTCO_2e$) including emissions resulting from imported electrical power.[12] Between 1990 and 2015, the population of California grew by approximately 9.3 million (from 29.8 to 39.1 million).[13] This represents an increase of approximately 31 percent from 1990 population levels. In addition, the California economy, measured as gross state product, grew from $773 billion in 1990 to $2.49 trillion in 2015 representing an increase of approximately 222 percent (just over three times the 1990 gross state product).[14] Despite the population and economic growth, California's net GHG emissions only grew by approximately 2.2 percent. According to CARB, the declining trend coupled with the state's GHG reduction programs (such as the Renewables Portfolio Standard, LCFS, vehicle efficiency standards, and declining caps under the Cap and Trade Program) demonstrate that California is on track to meet the 2020 GHG reduction target codified in California Health and Safety Code (HSC), Division 25.5, also known as The Global Warming Solutions Act of 2006 (AB 32).[15] **Table 4,** *State of California Greenhouse Gas Emissions,* identifies and quantifies statewide anthropogenic GHG emissions and sinks (e.g., carbon sequestration due to forest growth) in 1990 and 2015. As shown in the table, the transportation sector is the largest contributor to statewide GHG emissions at 37 percent in 2015.

12 California Air Resources Board, California Greenhouse Gas 2000-2014 Inventory by Scoping Plan Category – Summary, http://www.arb.ca.gov/cc/inventory/data/data.htm. Accessed December 2017.

13 United States Census Bureau, Data Finders, 2009, http://www.census.gov/; California Department of Finance, E-5 Population and Housing Estimates for Cities, Counties and the State, 2011-2017; http://www.dof.ca.gov/Forecasting/Demographics/Estimates/E-5; State of California Department of Finance, American Community Survey, 2015, http://www.dof.ca.gov/Reports/Demographic_Reports/American_Community_Survey/documents/Web_ACS2014_Pop-Race.xlsx. Accessed June 2017.

14 California Legislative Analyst's Office, 2014 GDP: California Ranks 7th or 8th in the World, 2015, http://www.lao.ca.gov/LAOEconTax/Article/Detail/90. Accessed March 2017.

15 California Energy Commission, Inventory of California Greenhouse Gas Emissions and Sinks 1990 to 2004, 2006, https://planning.lacity.org/eir/8150Sunset/References/4.E.%20Greenhouse%20Gas%20Emissions/GHG.20_CEC%20GHG%20Emissions%20and%20Sinks.pdf . Accessed December 2017.

**TABLE 4**
**STATE OF CALIFORNIA GREENHOUSE GAS EMISSIONS**

| Category | Total 1990 Emissions ($MMTCO_2e$) | Percent of Total 1990 Emissions | Total 2015 Emissions ($MMTCO_2e$) | Percent of Total 2014 Emissions |
|---|---|---|---|---|
| Transportation | 150.7 | 35% | 164.6 | 36% |
| Electric Power | 110.6 | 26% | 83.7 | 20% |
| Commercial | 14.4 | 3% | 12.8 | 4% |
| Residential | 29.7 | 7% | 23.2 | 5% |
| Industrial | 103.0 | 24% | 91.7 | 21% |
| Recycling and Waste[a] | – | – | 8.7 | 2% |
| High GWP/Non-Specified[b] | 1.3 | <1% | 19.1 | 4% |
| Agriculture/Forestry | 23.6 | 6% | 34.7 | 8% |
| Forestry Sinks | -6.7 | – | –[c] | – |
| **Net Total (IPCC SAR)** | **426.6** | **100%** | – | – |
| **Net Total (IPCC AR4)** [d] | **431** | **100%** | **440.4** | **100%** |

[a] Included in other categories for the 1990 emissions inventory.
[b] High GWP gases are not specifically called out in the 1990 emissions inventory.
[c] Forestry sinks was not calculated for 2014 pending a revised methodology under development.
[d] CARB revised the State's 1990 level GHG emissions using GWPs from the IPCC AR4.

SOURCES: CARB, Staff Report, California 1990 Greenhouse Gas Emissions Level and 2020 Emissions Limit, 2007; CARB, California Greenhouse Gas 2000-2015 Inventory by Scoping Plan Category – Summary, http://www.arb.ca.gov/cc/inventory/data/data.htm. Accessed July 2017.

### *Effects of Global Climate Change*

The scientific community's understanding of the fundamental processes responsible for global climate change has improved over the past decade, and its predictive capabilities are advancing. However, there remain significant scientific uncertainties in, for example, predictions of local effects of climate change, occurrence, frequency, and magnitude of extreme weather events, effects of aerosols, changes in clouds, shifts in the intensity and distribution of precipitation, and changes in oceanic circulation. Due to the complexity of the Earth's climate system and inability to accurately model it, the uncertainty surrounding climate change may never be completely eliminated. Nonetheless, the IPCC's *Fifth Assessment Report, Summary for Policy Makers* states that, "it is *extremely likely* that more than half of the observed increase in global average surface temperature from 1951 to 2010 was caused by the anthropogenic increase in greenhouse gas concentrations and other anthropogenic forc[es [*sic*] together."[16] A report from the National Academy of Sciences concluded that 97 to 98 percent of the climate researchers most actively publishing in the field support the tenets of the IPCC in that climate change is very likely caused

16 Intergovernmental Panel on Climate Change, Climate Change 2014: Synthesis Report. Contribution of Working Groups I, II and III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change, 2014, https://www.ipcc.ch/pdf/assessment-report/ar5/syr/AR5_SYR_FINAL_All_Topics.pdf. Accessed December 2017.

by human (i.e., anthropogenic) activity.[17] According to CARB, the potential impacts in California due to global climate change may include: loss in snow pack; sea level rise; more extreme heat days per year; more high ozone days; more large forest fires; more drought years; increased erosion of California's coastlines and sea water intrusion into the Sacramento and San Joaquin Deltas and associated levee systems; and increased pest infestation.[18] Below is a summary of some of the potential effects that could be experienced in California as a result of global warming and climate change.

In 2009, the California Natural Resources Agency (CNRA) published the *California Climate Adaptation Strategy* as a response to the Governor's Executive Order S-13-2008.[19] In 2014, the CNRA rebranded the first update of the 2009 adaptation strategy as the *Safeguarding California Plan*.[20] A 2017 update to *Safeguarding California* is now undergoing public review.[21] In 2016, the CNRA released *Safeguarding California: Implementation Action Plans* in accordance with Executive Order B-30-15, identifying a lead agency to lead adaptation efforts in each sector. *Safeguarding California* lists specific recommendations for state and local agencies to best adapt to the anticipated risks posed by a changing climate. In accordance with the 2009 *California Climate Adaptation Strategy*, the CEC was directed to develop a website on climate change scenarios and impacts that would be beneficial for local decision makers. The website, known as Cal-Adapt, became operational in 2011.[22] The information provided on the Cal-Adapt website represents a projection of potential future climate scenarios comprised of local average values for temperature, sea level rise, snowpack and other data representative of a variety of models and scenarios, including potential social and economic factors. According to the Cal-Adapt website, the portion of the state in which the Project site is located could result in an average increase in temperature of approximately 2°F) by 2070-2090, compared to the baseline 1961-1990 period.

# 2. Regulatory Setting

A number of statutes, regulations, plans and policies have been adopted which address air quality and climate change concerns. The project site and vicinity is subject to regulations developed and implemented at the federal, State, and local levels. At the federal level, the US EPA is responsible for implementation of the federal Clean Air Act (CAA). Some portions of the CAA (e.g., certain mobile source requirements and other requirements) are implemented directly by the US EPA.

17 Anderegg, William R. L., J.W. Prall, J. Harold, S.H., Schneider, Expert Credibility in Climate Change, Proceedings of the National Academy of Sciences of the United States of America. 2010;107:12107-12109.

18 California Environmental Protection Agency, Climate Action Team, Climate Action Team Report to Governor Schwarzenegger and the Legislature, (2006). Available at: http://climatechange.ca.gov/climate_action_team/reports/2006report/2006-04-03_FINAL_CAT_REPORT.PDF. Accessed December 2017.

19 CNRA, Climate Action Team, 2009. California Climate Adaptation Strategy: A Report to the Governor of the State of California in Response to Executive Order S-13-2008, (2009).

20 CNRA, 2017. Draft Report Safeguarding California Plan: 2017 Update to California's Climate Adaptation Strategy. http://resources.ca.gov/climate/safeguarding/. Accessed December 2017..

21 CNRA, 2017. Draft Report Safeguarding California Plan: 2017 Update to California's Climate Adaptation Strategy. http://resources.ca.gov/climate/safeguarding/. Accessed December 2017.

22 The Cal-Adapt website address is: http://cal-adapt.org.

Other portions of the CAA (e.g., stationary source requirements) are implemented through delegation of authority to State and local agencies.

# 2.1 Federal

## 2.1.1 Federal Clean Air Act

The federal CAA was the first federal legislation regarding air pollution control. At the federal level, the US EPA is responsible for implementation of certain portions of the CAA including mobile source requirements. Other portions of the CAA, such as stationary source requirements, are implemented by state and local agencies.

Under Title I, Nonattainment Provisions, the CAA establishes federal air quality standards, known as National Ambient Air Quality Standards (NAAQS), for the following criteria pollutants $O_3$, $NO_2$, CO, $SO_2$, PM10, PM2.5, and Pb. It also specifies future dates for achieving compliance with the NAAQS and mandates that states submit and implement a State Implementation Plan (SIP) for local areas not meeting these standards. These plans must include pollution control measures that demonstrate how the standards would be met. The 1990 amendments to the CAA identify specific emission reduction goals for basins not meeting the NAAQS. These amendments require both a demonstration of reasonable further progress toward attainment and incorporation of additional sanctions for failure to attain or to meet interim milestones. **Table 5,** *Ambient Air Quality Standards*, shows the NAAQS currently in effect for each criteria pollutant.

Title II of the CAA, Mobile Source Provisions, pertains to mobile sources such as cars, trucks, buses, and planes. Reformulated gasoline, automobile pollution control devices, and vapor recovery nozzles on gas pumps are a few of the mechanisms the US EPA uses to regulate mobile air emission sources. The provisions of Title II have resulted in tailpipe emission standards for vehicles, which have strengthened in recent years to improve air quality. For example, the standards for $NO_X$ emissions have lowered substantially and the specification requirements for cleaner burning gasoline are more stringent.

**TABLE 5**
**AMBIENT AIR QUALITY STANDARDS**

| Pollutant | Average Time | California Standards [a] | | National Standards [b] | | |
|---|---|---|---|---|---|---|
| | | Concentration [c] | Method [d] | Primary [c,e] | Secondary [c,f] | Method [g] |
| $O_3$ [h] | 1 Hour | 0.09 ppm (180 µg/m$^3$) | Ultraviolet Photometry | — | Same as Primary Standard | Ultraviolet Photometry |
| | 8 Hour | 0.070 ppm (137 µg/m$^3$) | | 0.070 ppm (137 µg/m$^3$) | | |
| $NO_2$ [i] | 1 Hour | 0.18 ppm (339 µg/m$^3$) | Gas Phase Chemi-luminescence | 100 ppb (188 µg/m$^3$) | None | Gas Phase Chemi-luminescence |
| | Annual Arithmetic Mean | 0.030 ppm (57 µg/m$^3$) | | 53 ppb (100 µg/m$^3$) | Same as Primary Standard | |
| CO | 1 Hour | 20 ppm (23 mg/m$^3$) | Non-Dispersive Infrared Photometry (NDIR) | 35 ppm (40 mg/m$^3$) | None | Non-Dispersive Infrared Photometry (NDIR) |
| | 8 Hour | 9.0 ppm (10mg/m$^3$) | | 9 ppm (10 mg/m$^3$) | | |

| Pollutant | Average Time | California Standards [a] | | National Standards [b] | | |
|---|---|---|---|---|---|---|
| | | Concentration [c] | Method [d] | Primary [c,e] | Secondary [c,f] | Method [g] |
| | 8 Hour (Lake Tahoe) | 6 ppm (7 mg/m$^3$) | | — | — | |
| $SO_2$ [j] | 1 Hour | 0.25 ppm (655 µg/m$^3$) | Ultraviolet Fluorescence | 75 ppb (196 µg/m$^3$) | — | Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method)[9] |
| | 3 Hour | — | | — | 0.5 ppm (1300 µg/m$^3$) | |
| | 24 Hour | 0.04 ppm (105 µg/m$^3$) | | 0.14 ppm (for certain areas) [j] | — | |
| | Annual Arithmetic Mean | — | | 0.030 ppm (for certain areas) [j] | — | |
| PM10 [k] | 24 Hour | 50 µg/m$^3$ | Gravimetric or Beta Attenuation | 150 µg/m$^3$ | Same as Primary Standard | Inertial Separation and Gravimetric Analysis |
| | Annual Arithmetic Mean | 20 µg/m$^3$ | | — | | |
| PM2.5 [k] | 24 Hour | No Separate State Standard | | 35 µg/m$^3$ | Same as Primary Standard | Inertial Separation and Gravimetric Analysis |
| | Annual Arithmetic Mean | 12 µg/m$^3$ | Gravimetric or Beta Attenuation | 12.0 µg/m$^3$ [k] | 15 µg/m$^3$ | |
| Lead [l, m] | 30 Day Average | 1.5 µg/m$^3$ | Atomic Absorption | — | — | High Volume Sampler and Atomic Absorption |
| | Calendar Quarter | — | | 1.5 µg/m$^3$ (for certain areas)[m] | Same as Primary Standard | |
| | Rolling 3-Month Average [m] | -- | | 0.15 µg/m$^3$ | | |
| Visibility Reducing Particles [n] | 8 Hour | Extinction coefficient of 0.23 per kilometer — visibility of ten miles or more (0.07 — 30 miles or more for Lake Tahoe) due to particles when relative humidity is less than 70 percent. Method: Beta Attenuation and Transmittance through Filter Tape. | | **No Federal Standards** | | |
| Sulfates ($SO_4$) | 24 Hour | 25 µg/m$^3$ | Ion Chromatography | | | |
| Hydrogen Sulfide | 1 Hour | 0.03 ppm (42 µg/m$^3$) | Ultraviolet Fluorescence | | | |
| Vinyl Chloride[l] | 24 Hour | 0.01 ppm (26 µg/m$^3$) | Gas Chromatography | | | |

| Pollutant | Average Time | California Standards [a] | | National Standards [b] | | |
|---|---|---|---|---|---|---|
| | | Concentration [c] | Method [d] | Primary [c,e] | Secondary [c,f] | Method [g] |

[a] California standards for $O_3$, CO (except 8-hour Lake Tahoe), $SO_2$ (1 and 24 hour), $NO_2$nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

[b] National standards (other than $O_3$, PM10, PM2.5, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The $O_3$ standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m$^3$ is equal to or less than one. For PM2.5, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard.

[c] Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

[d] Any equivalent procedure which can be shown to the satisfaction of CARB to give equivalent results at or near the level of the air quality standard may be used.

[e] National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.

[f] National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

[g] Reference method as described by the USEPA. An “equivalent method” of measurement may be used but must have a “consistent relationship to the reference method” and must be approved by the USEPA.

[h] On October 1, 2015, the national 8-hour $O_3$ primary and secondary standards were lowered from 0.075 to 0.070 ppm.

[i] To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb.

[j] On June 2, 2010, a new 1-hour $SO_2$ standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 $SO_2$ national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated non-attainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

[k] On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 µg/m$^3$ to 12.0 µg/m$^3$.

[l] CARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

[m] The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 µg/m$^3$ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated non-attainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

[n] In 1989, CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

SOURCE: California Air Resources Board, Ambient Air Quality Standards (5/4/16), http://www.arb.ca.gov/research/aaqs/aaqs2.pdf. Accessed December 2017.

### 2.1.2 United States Environmental Protection Agency

The US EPA is responsible for implementing federal policy to address global climate change. The federal government administers a wide array of public-private partnerships to reduce the GHG intensity generated by the United States. These programs focus on energy efficiency, renewable energy, methane and other non-carbon dioxide ($CO_2$) gases, agricultural practices, and implementation of technologies to achieve GHG reductions. The US EPA implements several voluntary programs that substantially contribute to the reduction of GHG emissions. All of these programs play a significant role in encouraging voluntary reductions from large corporations, consumers, industrial and commercial buildings, and many major industrial sectors.

- The State Climate and Energy Partner Network that allows for the exchange of information between federal and state agencies regarding climate and energy,
- The Climate Leaders program for companies,
- The Energy Star labeling system for energy-efficient products, and
- The Green Power Partnership for organizations interested in buying green power.

In *Massachusetts v. Environmental Protection Agency* (Docket No. 05–1120), the U.S. Supreme Court held in April of 2007 that the US EPA has statutory authority under Section 2020 of the federal CAA to regulate GHGs. The court did not hold that the US EPA was required to regulate GHG emissions; however, it indicated that the agency must decide whether GHGs cause or contribute to air pollution that is reasonably anticipated to endanger public health or welfare.

The President signed Executive Order 13432 on May 14, 2007, directing the USEPA, along with the Departments of Transportation, Energy, and Agriculture, to initiate a regulatory process that responds to the Supreme Court's decision. Executive Order 13432 was codified into law by the 2009 Omnibus Appropriations Law signed on February 17, 2009. The order sets goals in the areas of energy efficiency, acquisition, renewable energy, toxics reductions, recycling, sustainable buildings, electronics stewardship, fleets, and water conservation. In addition, the order requires more widespread use of Environmental Management Systems as the framework in which to manage and continually improve these sustainable practices. This Executive Order requires federal agencies to lead by example in advancing the nation's energy security and environmental performance by achieving the following goals:

- **Energy Efficiency:** Reduce energy intensity 30 percent by 2015, compared to an FY 2003 baseline.
- **Greenhouse Gases:** Reduce greenhouse gas emissions through reduction of energy intensity 30 percent by 2015, compared to an FY 2003 baseline.
- **Renewable Power:** At least 50 percent of current renewable energy purchases must come from new renewable sources (in service after January 1, 1999).
- **Building Performance:** Construct or renovate buildings in accordance with sustainability strategies, including resource conservation, reduction, and use; siting; and indoor environmental quality.
- **Water Conservation:** Reduce water consumption intensity 16 percent by 2015, compared to an FY 2007 baseline.
- **Vehicles:** Increase purchase of alternative fuel, hybrid, and plug-in hybrid vehicles when commercially available.
- **Petroleum Conservation:** Reduce petroleum consumption in fleet vehicles by 2 percent annually through 2015, compared to an FY 2005 baseline.
- **Alternative Fuel:** Increase use of alternative fuel consumption by at least 10 percent annually, compared to an FY 2005 baseline.
- **Pollution Prevention:** Reduce use of chemicals and toxic materials and purchase lower risk chemicals and toxic materials.
- **Procurement:** Expand purchases of environmentally sound goods and services, including bio-based products.
- **Electronics Management:** Annually, 95 percent of electronic products purchased must meet Electronic Product Environmental Assessment Tool standards where applicable; enable Energy Star® features on 100 percent of computers and monitors; and reuse, donate, sell, or recycle 100 percent of electronic products using environmentally sound management practices.

On December 7, 2009, the US EPA Administrator signed two distinct findings regarding GHGs under Section 202(a) of the federal CAA. The US EPA adopted a Final Endangerment Finding for the six defined GHGs $CO_2$, $CH_4$, $N_2O$, HFCs, PFCs, and $SF_6$.[23] The Endangerment Finding is required before US EPA can regulate GHG emissions under Section 202(a)(1) of the CAA in fulfillment of the U.S. Supreme Court decision. The US EPA also adopted a Cause or Contribute Finding in which the US EPA Administrator found that GHG emissions from new motor vehicle and motor vehicle engines are contributing to air pollution, which is endangering public health and welfare. These findings do not, by themselves, impose any requirements on industry or other entities. However, these actions were a prerequisite for implementing GHG emissions standards for vehicles.

On May 19, 2009, the President announced a national policy for fuel efficiency and emissions standards in the U.S. auto industry. The policy is a collaboration between the U.S. Department of Transportation (USDOT) and the US EPA. The proposed federal standards apply to passenger cars and light-duty trucks built in model years 2012 through 2016. The proposed rule would surpass the prior Corporate Average Fuel Economy (CAFE) standards and require an average fuel economy standard of 35.5 miles per gallon (mpg) and 250 grams of $CO_2$ per mile by model year 2016, based on USEPA calculation methods.

In August 2012, the US EPA and USDOT adopted standards for model year 2017 through 2025 for passenger cars and light-duty trucks. By 2020, vehicles are required to achieve a combined standard of 41.7 mpg and 213 grams of $CO_2$ per mile. By 2025, vehicles are required to achieve 54.5 mpg (if GHG reductions are achieved exclusively through fuel economy improvements) and 163 grams of $CO_2$ per mile. According to the USEPA, a model year 2025 vehicle would emit one-half of the GHG emissions from a model year 2010 vehicle.[24] In 2017, the US EPA recommended no change to the GHG standards for light-duty vehicles for model years 2022-2025. On April 2, 2017, the US EPA announced that the current standards are not appropriate and should be revised. The US EPA announced a joint process with the National Highway Traffic Safety Administration (NHTSA) to develop more appropriate CAFE standards (US EPA 2018).[25]

## 2.2 State

### 2.2.1 California Air Resources Board

CARB, a part of the California Environmental Protection Agency (CalEPA), is responsible for the coordination and administration of both federal and state air pollution control programs within California. In this capacity, CARB conducts research, sets state ambient air quality standards (California Ambient Air Quality Standards [CAAQS]), compiles emission inventories, develops

23 United States Environmental Protection Agency, Endangerment and Cause or Contribute Findings for Greenhouse Gases under the Section 202(a) of the Clean Air Act, https://www.epa.gov/climate-change/endangerment-and-cause-or-contribute-findings-greenhouse-gases-under-section-202a. Accessed December 2017.

24 United States Environmental Protection Agency, EPA and NHTSA Set Standards to Reduce Greenhouse Gases and Improve Fuel Economy for Model Years 2017-2025 Cars and Light Trucks, August 2012, https://nepis.epa.gov/Exe/ZyPDF.cgi/P100EZ7C.PDF?Dockey=P100EZ7C.PDF. Accessed December 2017.

25 United States Environmental Protection Agency. News Release – EPA Administrator Pruitt: GHG Emissions Standards for Cars and Light Trucks Should be Revised. https://www.epa.gov/newsreleases/epa-administrator-pruitt-ghg-emissions-standards-cars-and-light-trucks-should-be. Accessed May 2018

suggested control measures, and provides oversight of local programs. CARB establishes emissions standards for motor vehicles sold in California, consumer products (such as hairspray, aerosol paints, and barbecue lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions. CARB has primary responsibility for the development of California's SIP, for which it works closely with the federal government and the local air districts. The SIP is required for the State to take over implementation of the federal CAA from the US EPA.

In 2004, CARB adopted an Airborne Toxic Control Measure (ACTM) to limit heavy-duty diesel motor vehicle idling in order to reduce public exposure to diesel particulate matter and other toxic air contaminants (Title 13 California Code of Regulations [CCR], Section 2485). The measure applies to diesel-fueled commercial vehicles with gross vehicle weight ratings greater than 10,000 pounds that are licensed to operate on highways, regardless of where they are registered. This measure generally does not allow diesel-fueled commercial vehicles to idle for more than five (5) minutes at any given location with certain exemptions for equipment in which idling is a necessary function such as concrete trucks. While this measure primarily targets diesel particulate matter emissions, it has co-benefits of minimizing GHG emissions from unnecessary truck idling.

In 2008, CARB approved the Truck and Bus regulation to reduce particulate matter and nitrogen oxide emissions from existing diesel vehicles operating in California (13 CCR, Section 2025, subsection (h)). CARB has also promulgated emission standards for off-road diesel construction equipment of greater than 25 horsepower such as bulldozers, loaders, backhoes and forklifts, as well as many other self-propelled off-road diesel vehicles. The regulation adopted by the CARB on July 26, 2007, aims to reduce emissions by installation of diesel soot filters and encouraging the retirement, replacement, or repower of older, dirtier engines with newer emission-controlled models. While these regulations primarily target reductions in criteria air pollutant emission, they have co-benefits of minimizing GHG emissions due to improved engine efficiencies.

### 2.2.2 California Clean Air Act

The California Clean Air Act, signed into law in 1988, requires all areas of the state to achieve and maintain the CAAQS by the earliest practical date. The CAAQS apply to the same criteria pollutants as the federal Clean Air Act but also include state-identified criteria pollutants, which include sulfates, visibility-reducing particles, hydrogen sulfide, and vinyl chloride. CARB has primary responsibility for ensuring the implementation of the California Clean Air Act, responding to the federal Clean Air Act planning requirements applicable to the state, and regulating emissions from motor vehicles and consumer products within the state. Table 5 shows the CAAQS currently in effect for each of the criteria pollutants as well as the other pollutants recognized by the state. As shown in Table 5, the CAAQS include more stringent standards than the NAAQS for most of the criteria air pollutants.

Health and Safety Code Section 39607(e) requires CARB to establish and periodically review area designation criteria. **Table 6,** *South Coast Air Basin Attainment Status (Los Angeles County)* provides a summary of the attainment status of the Los Angeles County portion of the Air Basin with respect to the state standards. The Air Basin is designated as attainment for the California

standards for sulfates, hydrogen sulfide, and vinyl chloride. As shown in Table 6, the Air Basin is currently in nonattainment for ozone, PM10, and PM2.5 under the CAAQS.

**TABLE 6**
**SOUTH COAST AIR BASIN ATTAINMENT STATUS (LOS ANGELES COUNTY)**

| Pollutant | National Standards | California Standards |
|---|---|---|
| Ozone (1-hour standard) | N/A [a] | Non-attainment |
| Ozone (8-hour standard) | Non-attainment – Extreme | Non-attainment |
| Carbon Monoxide | Attainment | Attainment |
| Nitrogen Dioxide | Attainment | Attainment |
| Sulfur Dioxide | Attainment | Attainment |
| PM10 | Attainment | Non-attainment |
| PM2.5 | Non-attainment – Serious | Non-attainment |
| Lead | Non-attainment (Partial) [b] | Attainment |
| Visibility Reducing Particles | N/A | Unclassified |
| Sulfates | N/A | Attainment |
| Hydrogen Sulfide | N/A | Attainment |
| Vinyl Chloride | N/A | N/A [c] |

NOTES:
N/A = not applicable

[a] The NAAQS for 1-hour ozone was revoked on June 15, 2005, for all areas except Early Action Compact areas.

[b] Partial Nonattainment designation – Los Angeles County portion of the Air Basin only for near-source monitors.

[c] In 1990 the California Air Resources Board identified vinyl chloride as a toxic air contaminant and determined that it does not have an identifiable threshold. Therefore, the California Air Resources Board does not monitor or make status designations for this pollutant.

SOURCE: United States Environmental Protection Agency, The Green Book Non-attainment Areas for Criteria Pollutants, https://www.epa.gov/green-book. Accessed November 2017; California Air Resources Board, Area Designations Maps/State and National, http://www.arb.ca.gov/desig/adm/adm.htm. Accessed December 2017.

The Clean Air Act also specifies future dates for achieving compliance with the NAAQS and mandates that states submit and implement a State Implementation Plan (SIP) for local areas not meeting these standards. These plans must include pollution control measures that demonstrate how the standards would be met. The 1990 amendments to the Clean Air Act identify specific emission reduction goals for basins not meeting the NAAQS. These amendments require both a demonstration of reasonable further progress toward attainment and incorporation of additional sanctions for failure to attain, or meet, interim milestones.

Title II of the Clean Air Act pertains to mobile sources, such as cars, trucks, buses, and planes. Reformulated gasoline, automobile pollution control devices, and vapor recovery nozzles on gas pumps are a few of the mechanisms the US EPA uses to regulate mobile air emission sources. The provisions of Title II have resulted in tailpipe emission standards for vehicles, which have strengthened in recent years to improve air quality. For example, the standards for $NO_X$ emissions have lowered substantially and the specification requirements for cleaner burning gasoline are more stringent.

### 2.2.3 Air Quality and Land Use Handbook

The CARB published the Air Quality and Land Use Handbook in April 2005 to serve as a general guide for considering impacts to sensitive receptors from facilities that emit toxic air contaminant (TAC) emissions. The recommendations provided therein are voluntary and do not constitute a requirement or mandate for either land use agencies or local air districts.

### 2.2.4 On-Road and Off-Road Vehicle Rules

In 2004, CARB adopted an Airborne Toxic Control Measure (ATCM) to limit heavy-duty diesel motor vehicle idling in order to reduce public exposure to diesel particulate matter (DPM) and other TACs (Title 13 California Code of Regulations [CCR], Section 2485).[26] The measure applies to diesel-fueled commercial vehicles with gross vehicle weight ratings greater than 10,000 pounds that are licensed to operate on highways, regardless of where they are registered. This measure does not allow diesel-fueled commercial vehicles to idle for more than 5 minutes at any given time.

In 2008 CARB approved the Truck and Bus regulation to reduce $NO_X$, PM10, and PM2.5 emissions from existing diesel vehicles operating in California (13 CCR, Section 2025).[27] The requirements were amended in December 2010 and apply to nearly all diesel fueled trucks and busses with a gross vehicle weight rating greater than 14,000 pounds. For the largest trucks in the fleet, those with a gross vehicle weight rating greater than 26,000 pounds, there are two methods to comply with the requirements. The first way is for the fleet owner to retrofit or replace engines, starting with the oldest engine model year, to meet 2010 engine standards, or better. This is phased over eight years, starting in 2015 and would be fully implemented by 2023, meaning that all trucks operating in the State subject to this option would meet, or exceed, the 2010 engine emission standards for $NO_X$ and DPM by 2023. The second option, if chosen, requires fleet owners, starting in 2012, to retrofit a portion of their fleet with diesel particulate filters achieving at least 85 percent removal efficiency, so that by January 1, 2016 their entire fleet was equipped with diesel particulate filters. However, diesel particulate filters do not typically lower $NO_X$ emissions. Thus, fleet owners choosing the second option must still comply with the 2010 engine emission standards for their trucks and busses by 2020.

In addition to limiting exhaust from idling trucks, CARB promulgated emission standards for off-road diesel construction equipment of greater than 25 horsepower (hp) such as bulldozers, loaders, backhoes and forklifts, as well as many other self-propelled off-road diesel vehicles. The regulation adopted by the CARB on July 26, 2007, aims to reduce emissions by installation of diesel soot filters and encouraging the retirement, replacement, or repower, of older, dirtier engines with newer emission controlled models (13 CCR, Section 2449).[28] Implementation is staggered based on fleet size (which is the total of all off-road horsepower under common

26 California Air Resources Board, Final Regulation Order, Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling, https://www.arb.ca.gov/regact/idling/fro1.pdf. Accessed March 2017.

27 California Air Resources Board, Final Regulation Order, Amendments to the Regulation to Reduce Emissions of Diesel Particulate Matter, Oxides of Nitrogen and Other Criteria Pollutants from In-Use On-Road Diesel-Fueled Vehicles, http://www.arb.ca.gov/msprog/onrdiesel/documents/TBFinalReg.pdf. Accessed March 2017.

28 California Air Resources Board, Final Regulation Order, Regulation for In-Use Off-Road Diesel-Fueled Fleets, http://www.arb.ca.gov/regact/2010/offroadlsi10/finaloffroadreg.pdf. Accessed March 2017.

ownership or control), with the largest fleets to begin compliance January 1, 2014. Each fleet must demonstrate compliance through one of two methods. The first option is to calculate and maintain fleet average emissions targets, which encourages the retirement, or repowering, of older equipment and rewards the introduction of newer cleaner units into the fleet. The second option is to meet the Best Available Control Technology (BACT) requirements by turning over, or installing, Verified Diesel Emission Control Strategies (VDECS) on a certain percentage of its total fleet horsepower. The compliance schedule requires that BACT turn overs, or retrofits (VDECS installation), be fully implemented by 2023 in all equipment in large and medium fleets and across 100 percent of small fleets by 2028.

### 2.2.5 California Greenhouse Gas Reduction Targets

The Governor announced on June 1, 2005, through Executive Order S-3-05,[29] the following GHG emission reduction targets:

- By 2010, California shall reduce GHG emissions to 2000 levels;
- By 2020, California shall reduce GHG emissions to 1990 levels; and
- By 2050, California shall reduce GHG emissions to 80 percent below 1990 levels.

In accordance with Executive Order S-3-05, the Secretary of CalEPA is required to coordinate efforts of various agencies, which comprise the California Climate Action Team (CAT), in order to collectively and efficiently reduce GHGs. These agencies include CARB, the Secretary of the Business, Transportation and Housing Agency, Department of Food and Agriculture, the Resources Agency, the California Energy Commission, and the Public Utilities Commission. The CAT provides periodic reports to the Governor and Legislature on the state of GHG reductions in the state as well as strategies for mitigating and adapting to climate change. The first CAT Report to the Governor and the Legislature in 2006 contained recommendations and strategies to help meet the targets in Executive Order S-3-05. The 2010 CAT Report, finalized in December 2010, expands on the policies in the 2006 assessment.[30] The new information detailed in the CAT Report includes development of revised climate and sea-level projections using new information and tools that became available and an evaluation of climate change within the context of broader social changes, such as land-use changes and demographic shifts.

On April 29, 2015, Governor Brown issued Executive Order B-30-15. Therein, the Governor directed the following:

- Established a new interim statewide reduction target to reduce GHG emissions to 40 percent below 1990 levels by 2030.
- Ordered all state agencies with jurisdiction over sources of GHG emissions to implement measures to achieve reductions of GHG emissions to meet the 2030 and 2050 reduction targets.

29 California Office of the Governor, Executive Order S-3-05, https://www.gov.ca.gov/news.php?id=1861. Accessed March 2017.

30 California Environmental Protection Agency, Climate Action Team, Climate Action Team Report to Governor Schwarzenegger and the Legislature, 2010, http://www.energy.ca.gov/2010publications/CAT-1000-2010-005/CAT-1000-2010-005.PDF. Accessed March 2017.

- Directed CARB to update the Climate Change Scoping Plan to express the 2030 target in terms of million metric tons of carbon dioxide equivalent.

In response to the 2030 GHG reduction target, CARB released the 2017 Climate Change Scoping Plan Update in January 2017 and the proposed Final 2017 Climate Change Scoping Plan Update in December 2017.[31] The Scoping Plan Update outlines the strategies the State will implement to achieve the 2030 GHG reduction target, which build on the Cap-and-Trade Regulation, the Low Carbon Fuel Standard, improved vehicle, truck and freight movement emissions standards, increasing renewable energy, and strategies to reduce methane emissions from agricultural and other wastes by using it to meet our energy needs. The Scoping Plan Update also comprehensively addresses GHG emissions from natural and working lands of California, including the agriculture and forestry sectors. The Scoping Plan Update considers the following scenarios:

- Scoping Plan Scenario: Continuing the Cap-and-Trade Program.
- Alternative 1: Direct regulations on a wide variety of sectors, such as specific required reductions for all large GHG sources, more renewables, etc.
- Alternative 2: A carbon tax to put a price on carbon, instead of the Cap-and-Trade Program.
- Alternative 3: All Cap-and-Trade. This would remove the refinery measure and keep the LCFS at 10 percent reduction in carbon intensity past 2020.
- Alternative 4: Cap-and-Tax. This would place a declining cap on industry, and natural gas and fuel suppliers, while also requiring them to pay a tax on each ton of GHG emitted.

CARB is scheduled to consider the proposed scenario and alternatives and adopt the 2017 Climate Change Scoping Plan Update on December 17, 2017.

### 2.2.6 California Health and Safety Code, Division 25.5 – California Global Warming Solutions Act of 2006

In 2006, the California State Legislature adopted Assembly Bill (AB) 32 (codified in the California Health and Safety Code [HSC], Division 25.5 – California Global Warming Solutions Act of 2006), which focuses on reducing GHG emissions in California to 1990 levels by 2020. HSC Division 25.5 defines GHGs as $CO_2$, $CH_4$, $N_2O$, HFCs, PFCs, and $SF_6$ and represents the first enforceable statewide program to limit emissions of these GHGs from all major industries with penalties for noncompliance. The law further requires that reduction measures be technologically feasible and cost effective. Under HSC Division 25.5, CARB has the primary responsibility for reducing GHG emissions. CARB is required to adopt rules and regulations directing state actions that would achieve GHG emissions reductions equivalent to 1990 statewide levels by 2020. In 2016, the California State Legislature adopted Senate Bill (SB) 32 and its companion bill AB 197, and both were signed by Governor Brown. SB 32 and AB 197 amends HSC Division 25.5 and establishes a new climate pollution reduction target of 40 percent below

31 California Air Resources Board, The 2017 Climate Change Scoping Plan Update, January 2017 https://www.arb.ca.gov/cc/scopingplan/2030sp_pp_final.pdf. Accessed March 2017.

1990 levels by 2030 and includes provisions to ensure the benefits of state climate policies reach into disadvantaged communities.

A specific requirement of AB 32 was to prepare a Climate Change Scoping Plan for achieving the maximum technologically feasible and cost-effective GHG emission reduction by 2020 (Health and Safety Code section 38561 (h)). CARB developed an AB 32 Scoping Plan that contains strategies to achieve the 2020 emissions cap.[32] The initial scoping plan was approved in 2008. It contained a mix of recommended strategies that combined direct regulations, market-based approaches, voluntary measures, policies, and other emission reduction programs calculated to meet the 2020 statewide GHG emission limit and initiate the transformations needed to achieve the State's long-range climate objectives.[33] The first update to the Scoping Plan was approved by CARB in May 2014 and built upon the initial Scoping Plan with new strategies and recommendations.[34]

As required by HSC Division 25.5, CARB approved the 1990 GHG emissions inventory, thereby establishing the emissions limit for 2020. The 2020 emissions limit was originally set at 427 $MMTCO_2e$ using the GWP values from the IPCC SAR. CARB also projected the state's 2020 GHG emissions under business-as-usual (BAU) conditions – that is, emissions that would occur without any plans, policies, or regulations to reduce GHG emissions. CARB originally used an average of the state's GHG emissions from 2002 through 2004 and projected the 2020 levels at approximately 596 $MMTCO_2e$ (using GWP values from the IPCC SAR). Therefore, under the original projections, the state must reduce its projected 2020 emissions by 28.4 percent in order to meet the 1990 target of 427 $MMTCO_2e$. In 2014, CARB revised the target using the GWP values from the IPCC AR4 and determined that the 1990 GHG emissions inventory and 2020 GHG emissions limit is 431 $MMTCO_2e$. CARB also updated the State's projected 2020 emissions estimate to account for the effect of the 2007–2009 economic recession, new estimates for future fuel and energy demand, and the reductions required by regulation that were recently adopted for motor vehicles and renewable energy. CARB's projected statewide 2020 emissions estimate using the GWP values from the IPCC AR4 is 509.4 $MMTCO_2e$. Therefore, the emission reductions necessary to achieve the 2020 emissions target of 431 $MMTCO_2e$ would be 78.4 $MMTCO_2e$, or a reduction of GHG emissions by approximately 15.4 percent. In the 2017 Climate Change Scoping Plan Update, CARB provides the estimated projected statewide 2030 emissions and the level of reductions necessary to achieve the 2030 target of 40 percent below 1990 levels. CARB's projected statewide 2030 emissions takes into account 2020 GHG reduction policies and programs. A summary of the GHG emissions reductions required under HSC Division 25.5 is provided in **Table 7,** *Estimated Greenhouse Gas Emissions Reductions Required by HSC Division 25.5*.

32 California Air Resources Board, Initial AB 32 Climate Change Scoping Plan Document, https://www.arb.ca.gov/cc/scopingplan/scopingplan.htm. Accessed December 2017

33 California Air Resources Board, Initial AB 32 Climate Change Scoping Plan Document, https://www.arb.ca.gov/cc/scopingplan/scopingplan.htm. Accessed December 2017.

34 California Air Resources Board, First Update to the AB 32 Scoping Plan, https://www.arb.ca.gov/cc/scopingplan/scopingplan.htm. Accessed December 2017.

**TABLE 7**
**ESTIMATED GREENHOUSE GAS EMISSIONS REDUCTIONS REQUIRED BY HSC DIVISION 25.5**

| Emissions Scenario | GHG Emissions ($MMTCO_2e$) |
|---|---|
| **2008 Scoping Plan (IPCC SAR)** | |
| 2020 BAU Forecast (CARB 2008 Scoping Plan Estimate) | 596 |
| 2020 Emissions Target Set by HSC Division 25.5 (i.e., 1990 Level) | 427 |
| Reduction below BAU Necessary to Achieve 1990 Levels by 2020 | 169 (28.4%) [a] |
| **2011 Scoping Plan (GHG Estimates Updated in 2014 to Reflect IPCC AR4 GWPs)** | |
| 2020 BAU Forecast (CARB 2011 Scoping Plan Estimate) | 509.4 |
| 2020 Emissions Target Set by HSC Division 25.5 (i.e., 1990 Level) | 431 |
| Reduction Necessary to Achieve 1990 Levels by 2020 | 78.4 (15.4%) [b] |
| **2017 Scoping Plan Update [c]** | |
| 2030 BAU Forecast ("Reference Scenario" which includes 2020 GHG reduction policies and programs) | 389 |
| 2030 Emissions Target Set by HSC Division 25.5 (i.e., 40% below 1990 Level) | 236 |
| Reduction Necessary to Achieve 40% below 1990 Level by 2030 | 153 (39.3%) [d] |

[a] 596 – 427 = 169 / 596 = 28.4%

[b] 509.4 – 431 = 78.4 / 509.4 = 15.4%

[c] The 2017 Scoping Plan Update has not been adopted as of December 12, 2017.

[d] 389 – 236 = 153 / 389 = 39.3%

SOURCE: California Air Resources Board, Final Supplement to the AB 32 Scoping Plan Functional Equivalent Document (FED), Attachment D, August 19, 2011; California Air Resources Board, 2020 Business-As-Usual (BAU) Emissions Projection, 2014 Edition, http://www.arb.ca.gov/cc/inventory/data/bau.htm. Accessed October 2016; California Air Resources Board, The 2017 Climate Change Scoping Plan Update, November 2017. https://www.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf. Accessed December 2017.

In its Climate Change Scoping Plan, CARB has acknowledged that land use-driven emissions are highly complex: "While it is possible to illustrate the [GHG] inventory many different ways, no chart or graph can fully display how diverse economic sectors fit together. California's economy is a web of activity where seemingly independent sectors and subsectors operate interdependently and often synergistically."[35] GHG emissions and reductions in the land use sector are complicated to assess given that emissions are influenced by reduction measures separate from the land use sector, such as the LCFS, vehicle emissions standards, and entities regulated under the Cap-and-Trade program including refineries and utility providers. These measures will impact other sectors of the economy and will also impact existing development in addition to new land use development. In its report, *California Environmental Quality Act Guidelines Update Proposed Thresholds of Significance*, the Bay Area Air Quality Management District (BAAQMD) evaluated the reduction in land use emissions needed in order to be consistent with AB 32.[36] CARB included the following sectors for land use emissions: Transportation (on-road passenger vehicles; on-road heavy-duty), electric power (electricity; cogeneration), commercial and

35 California Air Resources Board, Climate Change Scoping Plan, December 2008, https://www.arb.ca.gov/cc/scopingplan/document/adopted_scoping_plan.pdf. Accessed May 2017.

36 Bay Area Air Quality Management District, California Environmental Quality Act Guidelines Update Proposed Thresholds of Significance, May 2010, http://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/proposed_thresholds_report_-may_3_2010_final.pdf?la=en. Accessed: May 2017.

residential (residential fuel use; commercial fuel use) and recycling and waste (domestic wastewater treatment). Table 2 of the BAAQMD document presents the results of this analysis, which shows that the 26.2 percent reduction from statewide land-use driven GHG emissions would be necessary to meet the AB 32 goal of returning to the 1990 emission levels by 2020, which is lower than the statewide reduction of 28.5 percent required based on the original 2008 Climate Change Scoping Plan projections.

### 2.2.7 SB 97

SB 97, enacted in 2007, directed the State Office of Planning and Research (OPR) to develop California Environmental Quality Act (CEQA) Guidelines "for the mitigation of GHG emissions or the effects of GHG emissions." In December 2009, OPR adopted amendments to the CEQA Guidelines, Appendix G Environmental Checklist, which created a new resource section for GHG emissions and indicated criteria that may be used to establish significance of GHG emissions. Appendix F of the CEQA Guidelines states that, in order to ensure that energy implications are considered in project decisions, the potential energy implications of a project shall be considered in an EIR, to the extent relevant and applicable to the project. Appendix F further states that a project's energy consumption and proposed conservation measures may be addressed, as relevant and applicable. In accordance with Appendix F of the CEQA Guidelines, relevant information that addresses the energy implications of the Project is provided in Section 3.3, *Energy* of the Draft EIR.

### 2.2.8 Title 24, Building Standards Code and CALGreen Code

The California Energy Commission first adopted the Energy Efficiency Standards for Residential and Nonresidential Buildings (California Code of Regulations, Title 24, Part 6) in 1978 in response to a legislative mandate to reduce energy consumption in the state. Although not originally intended to reduce GHG emissions, increased energy efficiency, and reduced consumption of electricity, natural gas, and other fuels would result in fewer GHG emissions from residential and nonresidential buildings subject to the standard. The standards are updated periodically to allow for the consideration and inclusion of new energy efficiency technologies and methods.

Part 11 of the Title 24 Building Energy Efficiency Standards is referred to as the California Green Building Standards (CALGreen) Code. The purpose of the CALGreen Code is to "improve public health, safety and general welfare by enhancing the design and construction of buildings through the use of building concepts having a positive environmental impact and encouraging sustainable construction practices in the following categories: (1) Planning and design; (2) Energy efficiency; (3) Water efficiency and conservation; (4) Material conservation and resource efficiency; and (5) Environmental air quality." (CBSC, 2010) The CALGreen Code is not intended to substitute for, or be identified as, meeting the certification requirements of any green building program that is not established and adopted by the California Building Standards Commission. When the CALGreen Code went into effect in 2009, compliance through 2010 was voluntary. As of January 1, 2011, the CALGreen Code is mandatory for all new buildings constructed in the state. The CALGreen Code establishes mandatory measures for new residential and non-residential buildings. Such mandatory measures include energy efficiency, water conservation, material

conservation, planning and design and overall environmental quality (CBSC, 2010). The CALGreen Code was most recently updated in 2016 to include new mandatory measures for residential as well as nonresidential uses; the new measures took effect on January 1, 2017 (17 CCR §§ 95800 to 96023).

### 2.2.9 California Green B uilding Code

In January 2011, the 2010 CALGreen became effective. Building off of the initial 2008 California Green Building Code, the 2010 CALGreen Code represents a more stringent building code that requires, at a minimum, that new buildings and renovations in California meet certain sustainability and ecological standards. The 2010 CALGreen Code has mandatory Green Building provisions for all new residential buildings that are three stories, or fewer (including hotels and motels), and all new non-residential buildings of any size that are not additions to existing buildings.

In January 2017, the 2016 California Building Standards Code became effective that also included the latest 2016 CALGreen Code. The mandatory provisions of the code are anticipated to reduce 3 MMT of GHG emissions by 2020, reduce water use by 20 percent, or more, and divert 50 percent of construction waste from landfills. In January 2017, the 2016 California Energy Code (Title 24, Part 6) became effective, which is also part of the CALGreen Code (Title 24, Part 11, Chapter 5.2).

## 2.3 Regional

### 2.3.1 South Coast Air Quality Management District

The SCAQMD has jurisdiction over an area of approximately 10,743 square miles. This area includes all of Orange County, Los Angeles County except for the Antelope Valley, the non-desert portion of western San Bernardino County, and the western and Coachella Valley portions of Riverside County. The Air Basin is a sub-region of the SCAQMD jurisdiction. While air quality in this area has improved, the Air Basin requires continued diligence to meet air quality standards.

#### *Air Quality Management Plan*

The SCAQMD has adopted a series of Air Quality Management Plans (AQMP) to meet the CAAQS and NAAQS. The SCAQMD and CARB have adopted the 2016 AQMP, which incorporates scientific and technological information and planning assumptions regarding air quality, including the SCAG 2016 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), and emission inventory methodologies for various source categories.[37] The 2016 AQMP was adopted by the AQMD Governing Board on March 3, 2017.[38]

[37] South Coast Air Quality Management District, Air Quality Management Plan (AQMP), Final 2016 AQMP, http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan. Accessed November 2017.

[38] South Coast Air Quality Management District, Air Quality Management Plan (AQMP), Final 2016 AQMP, http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan. Accessed November 2017.

The purpose of the 2016 AQMP is to bring the Air Basin into attainment with NAAQS for 24-hour PM2.5. SCAQMD has since determined that this deadline was impractical due to drought conditions in the region.[39] In 2016, US EPA approved reclassification of the Air Basin from "moderate" to "serious" non-attainment for the 24-hour PM2.5 standard, which has a new attainment deadline of December 31, 2019. The 2016 AQMP demonstrates that the 24-hour standard will be met by 2019 with no additional reductions beyond already adopted and implemented measures. The 2016 AQMP also intensifies the scope and pace of continued air quality improvement efforts toward meeting the 2024 and 2032 8-hour ozone standard deadline with new measures designed to reduce reliance on the CAA Section 182(e)(5) long-term measures for $NO_X$ and VOC reductions. SCAQMD expects exposure reductions to be achieved through implementation of new and advanced control technologies as well as improvement of existing technologies.

The control measures in the 2016 AQMP consist of 8-hour ozone control measures and PM2.5 control measures designed to achieve the ozone and PM2.5 NAAQS by statutory deadlines. The AQMP includes ten $PM_{2.5}$ control measures, 15 stationary source 8-hour ozone measures, and 15 early action measures for mobile sources. In general, the SCAQMD's control strategy for stationary and mobile sources is based on the following approaches: (1) available cleaner technologies; (2) best management practices; (3) incentive programs; (4) development and implementation of near-zero technologies and vehicles and control methods; and (5) emission reductions from mobile sources. Control strategies in the AQMP with potential applicability to short-term emissions from construction activities associated with the Project include strategies denoted in the AQMP as MOB-08 and MOB-10, which are intended to reduce emissions from on-road and off-road heavy-duty vehicles and equipment. Descriptions of measures MOB-08 and MOB-10 are provided below:

> **MOB-08 – Accelerated Retirement of Older On-Road Heavy-Duty Vehicles:** This proposed measure seeks to replace heavy-duty vehicles with newer, or new, vehicles that at a minimum, meet the 2010 on-road heavy-duty $NO_X$ exhaust emissions standard of 0.2 grams per brake horsepower-hour (g/bhp-hr). Given that exceedances of the 24-hour $PM_{2.5}$ air quality standard occur in the state, priority will be placed on replacing older diesel trucks that operate primarily at the warehouse and distribution centers. Funding assistance of up to $50,000 per vehicle is proposed and the level of funding will depend upon the $NO_X$ emissions certification level of the replacement vehicle. In addition, a provision similar to the Surplus Off-Road Option for $NO_X$ (SOON) provision of the statewide In-Use Off-Road Fleet Vehicle Regulation will be sought to ensure that additional $NO_X$ emission reduction benefits are achieved.
>
> **MOB-10 – Extension of the SOON Provision for Construction/Industrial Equipment:** This measure seeks to continue the (SOON) provision of the statewide In-Use Off-Road Fleet Vehicle Regulation beyond 2023 through the 2031 timeframe. To implement the SOON program in this timeframe, funding of at least $10 million per year would be sought to help fund the repower, or replacement, of older Tier 0 and Tier 1

[39] South Coast Air Quality Management District, Air Quality Management Plan (AQMP), Final 2016 AQMP, http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan. Accessed November 2017.

equipment, with reductions that are considered surplus to the statewide regulation with Tier 4 or cleaner engines.

The SCAQMD released the Draft 2016 AQMP on June 30, 2016 for public review and comment. A revised Draft 2016 AQMP was released in October 2016 and the SCAQMD Governing Board adopted the 2016 AQMP on March 3, 2017.[40] CARB approved the 2016 AQMP on March 23, 2017. USEPA approval is pending, and is a necessary requirement before the 2016 AQMP can be incorporated into the State Implementation Plan. Key elements of the 2016 AQMP include implementing fair-share emissions reductions strategies at the federal, state, and local levels; establishing partnerships, funding, and incentives to accelerate deployment of zero and near-zero-emissions technologies; and taking credit from co-benefits from greenhouse gas, energy, transportation and other planning efforts.[41] The strategies included in the 2016 AQMP are intended to demonstrate attainment of the NAAQS for the federal non-attainment pollutants $O_3$ and PM2.5.[42] Provisions of the 2016 AQMP do not appear to affect the proposed Project.

### *Regulations and Rules*

Several SCAQMD rules adopted to implement portions of the AQMP may apply to construction or operation of the Project. The Project may be subject to the following SCAQMD rules and regulations:

**Regulation IV – Prohibitions:** This regulation sets forth the restrictions for visible emissions, odor nuisance, fugitive dust, various air emissions, fuel contaminants, start-up/shut-down exemptions and breakdown events. The following is a list of rules which may apply to the Project:

**Rule 401 – Visible Emissions:** This rule states that a person shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is as dark or darker in shade as that designated No. 1 on the Ringelmann Chart or of such opacity as to obscure an observer's view.

**Rule 402 – Nuisance:** This rule states that a person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

**Rule 403 – Fugitive Dust:** This rule requires projects to prevent, reduce or mitigate fugitive dust emissions from a site. Rule 403 restricts visible fugitive dust to the project property line, restricts the net PM10 emissions to less than 50 micrograms per cubic meter ($\mu g/m^3$) and restricts the tracking out of bulk materials onto public roads. Additionally, projects must utilize one or more of the best available control measures

40 South Coast Air Quality Management District, Air Quality Management Plan (AQMP), Final 2016 AQMP, http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan. Accessed November 2017.

41 South Coast Air Quality Management District, Air Quality Management Plan (AQMP), Final 2016 AQMP, http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan. Accessed November 2017.

42 South Coast Air Quality Management District, NAAQS/CAAQS and Attainment Status for South Coast Air Basin, (2016), http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/naaqs-caaqs-feb2016.pdf?sfvrsn=2. Accessed November 2017.

(identified in the tables within the rule). Mitigation measures may include adding freeboard to haul vehicles, covering loose material on haul vehicles, watering, using chemical stabilizers and/or ceasing all activities. Finally, a contingency plan may be required if so determined by the US EPA.

**Regulation XI – Source Specific Standards:** Regulation XI sets emissions standards for different specific sources. The following is a list of rules which may apply to the Project:

**Rule 1113 – Architectural Coatings:** This rule requires manufacturers, distributors, and end users of architectural and industrial maintenance coatings to reduce VOC emissions from the use of these coatings, primarily by placing limits on the VOC content of various coating categories.

**Rule 1146.2 – Emissions of Oxides of Nitrogen from Large Water Heaters and Small Boilers and Process Heaters:** This rule requires manufacturers, distributors, retailers, refurbishers, installers, and operators of new and existing units to reduce $NO_X$ emissions from natural gas-fired water heaters, boilers, and process heaters as defined in this rule.

**Regulation XIV – Toxics and Other Non-Criteria Pollutants:** Regulation XIV sets requirements for new permit units, relocations, or modifications to existing permit units which emit toxic air contaminants or other non-criteria pollutants. The following is a list of rules which may apply to the Project:

**Rule 1403 – Asbestos Emissions from Demolition/Renovation Activities:** This rule requires owners and operators of any demolition or renovation activity and the associated disturbance of asbestos-containing materials, any asbestos storage facility, or any active waste disposal site to implement work practice requirements to limit asbestos emissions from building demolition and renovation activities, including the removal and associated disturbance of asbestos-containing materials.

### *Air Quality Guidance Documents*

The SCAQMD published a *CEQA Air Quality Handbook* (the Handbook) to provide local governments with guidance for analyzing and mitigating project-specific air quality impacts. The Handbook provides standards, methodologies, and procedures for conducting air quality analyses in CEQA documents and was used extensively in the preparation of this analysis. However, the SCAQMD is currently in the process of replacing the Handbook with the *Air Quality Analysis Guidance Handbook*. While this process is underway, the SCAQMD recommends using CalEEMod or another approved model to calculate emissions from land use projects.[43]

In June 2003, the SCAQMD published a document called the *Localized Significance Threshold Methodology* that is intended to provide voluntary guidance for lead agencies in analyzing localized air quality impacts from projects.[44] The document was revised in July 2008 to

[43] South Coast Air Quality Management District, CEQA Air Quality Handbook (1993), http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/ceqa-air-quality-handbook-(1993). Accessed October 2017.

[44] South Coast Air Quality Management District, Localized Significance Thresholds, (2003, revised 2008), http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds. Accessed October 2017.

incorporate additional guidance regarding PM2.5 emissions.[45] The *Localized Significance Threshold Methodology* was also used in the preparation of this assessment.

The SCAQMD has also adopted land use planning guidance in the May 2005 *Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning*[46] which, like the CARB Handbook, also considers impacts to sensitive receptors from facilities that emit TACs. SCAQMD's distance recommendations are the same as those provided by CARB (e.g., the same siting criteria for distribution centers and dry-cleaning facilities). The SCAQMD's document introduces land use-related policies that rely on design and distance parameters to manage potential health risk. The guidance consists of voluntary initiatives recommended for consideration by local planning agencies.

### *Greenhouse Gases*

The SCAQMD adopted a "Policy on Global Warming and Stratospheric Ozone Depletion" on April 6, 1990. The policy commits the SCAQMD to consider global impacts in rulemaking and in drafting revisions to the Air Quality Management Plan. In March 1992, the SCAQMD Governing Board reaffirmed this policy and adopted amendments to the policy to include the following directives:

- Phase out the use and corresponding emissions of chlorofluorocarbons, methyl chloroform (1,1,1-trichloroethane or TCA), carbon tetrachloride, and halons by December 1995;
- Phase out the large quantity use and corresponding emissions of hydrochlorofluorocarbons by the year 2000;
- Develop recycling regulations for hydrochlorofluorocarbons (e.g., SCAQMD Rules 1411 and 1415);
- Develop an emissions inventory and control strategy for methyl bromide; and
- Support the adoption of a California GHG emission reduction goal.

After AB 32 was passed, SCAQMD formed a Climate Change Committee along with a Greenhouse Gases CEQA Significance Thresholds Working Group and the SoCal Climate Solutions Exchange Technical Advisory Group. On September 5, 2008, the SCAQMD Board approved the SCAQMD Climate Change Policy, which outlines actions the District will take to assist businesses and local governments in implementing climate change measures, decrease the agency's carbon emissions, and provide information to the public regarding climate change. In 2008, SCAQMD released draft guidance regarding interim CEQA GHG significance thresholds.[47] On December 5, 2008, the SCAQMD Governing Board adopted the staff proposal for interim GHG significance thresholds for stationary source/industrial projects, and related

45 South Coast Air Quality Management District, Final Methodology to Calculate Particulate Matter (PM)2.5 and PM2.5 Significance Thresholds, (2006), http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/pm-2-5-significance-thresholds-and-calculation-methodology. Accessed October 2017.

46 South Coast Air Quality Management District, Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning, (May 2005), http://www.aqmd.gov/prdas/aqguide/aqguide.html. Accessed October 2017.

47 South Coast Air Quality Management District, Board Meeting, December 5, 2008, Agenda No. 31, http://www3.aqmd.gov/hb/2008/December/0812ag.html. Accessed December 2017.

rules, and plans where the SCAQMD is the lead agency. The GHG Significance Threshold Working Group evaluated potential GHG significance thresholds; however, the SCAQMD has yet to adopt a GHG significance threshold for land use development projects (e.g., mixed-use/commercial projects).[48] The aforementioned Working Group has been inactive since 2011.

### 2.3.2 Regional Comprehensive Plan and Guide and Congestion Management Plan

SCAG is the regional planning agency for Los Angeles, Orange, Ventura, Riverside, San Bernardino and Imperial Counties and addresses regional issues relating to transportation, the economy, community development and the environment. SCAG is the federally designated metropolitan planning organization (MPO) for the majority of the southern California region and is the largest MPO in the nation. With regard to air quality planning, SCAG has prepared the Regional Transportation Plan (RTP) and Regional Transportation Improvement Program (RTIP), which address regional development and growth forecasts and form the basis for the land use and transportation control portions of the AQMP and are utilized in the preparation of the air quality forecasts and consistency analysis included in the AQMP. The RTP, RTIP, and AQMP are based on projections originating within local jurisdictions.

## 2.4 Local

### 2.4.1 City of Los Angeles

Local jurisdictions, such as the City of Los Angeles (City), have the authority and responsibility to reduce air pollution through its land use decision-making authority. Specifically, the City is responsible for the assessment and mitigation of air emissions resulting from its land use decisions. The City's General Plan Air Quality Element includes City-wide goals, objectives, and policies related to air quality resources. A number of these goals, objectives, and policies are relevant to the proposed Project, and are related to traffic mobility, minimizing particulate emissions from construction activities, discouraging single-occupancy vehicle trips, managing traffic congestion during peak hours, and increasing energy efficiency in City facilities and private developments.

The City of Los Angeles is also responsible for the implementation of transportation control measures as outlined in the AQMP. Through capital improvement programs, local governments can fund infrastructure that contributes to improved air quality by requiring such improvements as bus turnouts as appropriate, installation of energy-efficient streetlights, and synchronization of traffic signals. In accordance with CEQA requirements and the CEQA review process, the City assesses the air quality impacts of new development projects, requires mitigation of potentially significant air quality impacts by conditioning discretionary permits and monitors and enforces implementation of such mitigation measures.

48 South Coast Air Quality Management District, Greenhouse Gases CEQA Significance Thresholds, http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/ghg-significance-thresholds. Accessed December 2017.

The City of Los Angeles has incorporated the California Green Building (CALGreen) Standards Code, with amendments in its 2017 Los Angeles Green Building Code. The City's ordinance requires applicable projects to comply with specified provisions to reduce energy consumption.

### 2.4.2 Los Angeles Unified School District PEIR

The SUP Program EIR includes Standard Conditions of Approval (SCs) for reducing impacts on air quality in areas where future projects would be implemented under the SUP. Applicable SCs related to Project air quality impacts are provided in **Table 7**, *Air quality Standard Conditions of Approval*, below.

**TABLE 7**
**AIR QUALITY STANDARD CONDITIONS OF APPROVAL**

| Applicable SCs | Description |
|---|---|
| SC-AQ-1 | **OEHS CEQA Specification Manual, Appendix J, Air Toxics Health Risk Assessment (HRA)**<br>This document includes guidance on HRA protocols for permitted, non-permitted, and mobile sources that might reasonably be anticipated to emit hazardous air emissions and result in potential long-term and short-term health impacts to student and staff at the school site |
| SC-AQ-2 | LAUSD's construction contractor shall ensure that construction equipment is properly tuned and maintained in accordance with manufacturer's specifications, to ensure excessive emissions are not generated by unmaintained equipment. |
| SC-AQ-3 | LAUSD's construction contractor shall:<br>• Maintain slow speeds with all vehicles.<br>• Load impacted soil directly into transportation trucks to minimize soil handling.<br>• Water/mist soil as it is being excavated and loaded onto the transportation trucks.<br>• Water/mist and/or apply surfactants to soil placed in transportation trucks prior to exiting the site.<br>• Minimize soil drop height into transportation trucks or stockpiles during dumping.<br>• During transport, cover or enclose trucks transporting soils, increase freeboard requirements, and repair trucks exhibiting spillage due to leaks.<br>• Cover the bottom of the excavated area with polyethylene sheeting when work is not being performed.<br>• Place stockpiled soil on polyethylene sheeting and cover with similar material.<br>• Place stockpiled soil in areas shielded from prevailing winds. |
| SC-AQ-4 | LAUSD shall prepare an air quality assessment:<br>If site-specific review of a school construction project identifies potentially significant adverse regional and localized construction air quality impacts, then LAUSD shall implement all feasible measures to reduce air emissions below the South Coast Air Quality Management District's (SCAQMD) regional and localized significance thresholds.<br>LAUSD shall mandate that construction bid contracts include the measures identified in the air quality assessment. Measures shall reduce construction emissions during high-emission construction phases from vehicles and other fuel driven construction engines, activities that generate fugitive dust, and surface coating operations. Specific air emission reduction measures include, but are not limited to, the following:<br>**Exhaust Emissions**<br>• Schedule construction activities that affect traffic flow to off-peak hours (e.g. between 10:00 AM and 3:00 PM).<br>• Consolidate truck deliveries and/or limit the number of haul trips per day.<br>• Route construction trucks off congested streets.<br>• Employ high pressure fuel injection systems or engine timing retardation.<br>• Utilize ultra-low sulfur diesel fuel, containing 15 ppm sulfur or less (ULSD) in all diesel construction equipment. |

| Applicable SCs | Description |
|---|---|
| | • Use construction equipment rated by the United States Environmental Protection Agency as having Tier 3 (model year 2006 or newer) or Tier 4 (model year 2008 or newer) emission limits for engines between 50 and 750 horsepower.<br>• Restrict non-essential diesel engine idle time, to not more than five consecutive minutes.<br>• Utilize electrical power rather than internal combustion engine power generators as soon as feasible during construction.<br>• Utilize electric or alternatively fueled equipment, if feasible.<br>• Utilize construction equipment with the minimum practical engine size.<br>• Utilize low-emission on-road construction fleet vehicles.<br>• Ensure construction equipment is properly serviced and maintained to the manufacturer's standards.<br>**Fugitive Dust**<br>• Apply non-toxic soil stabilizers according to manufacturers' specification to all inactive construction areas (previously graded areas inactive for ten days or more).<br>• Replace ground cover in disturbed areas as quickly as possible.<br>• Sweep streets at the end of the day if visible soil material is carried onto adjacent public paved roads (recommend water sweepers with reclaimed water).<br>• Install wheel washers where vehicles enter and exit unpaved roads onto paved roads, or wash off trucks and any equipment leaving the site each trip.<br>• Pave construction roads that have a traffic volume of more than 50 daily trips by construction equipment, and/or 150 daily trips for all vehicles.<br>• Pave all construction access roads for at least 100 feet from the main road to the project site.<br>• Water the disturbed areas of the active construction site at least three times per day, except during periods of rainfall.<br>• Enclose, cover, water twice daily, or apply non-toxic soil binders according to manufacturers' specifications to exposed piles (i.e., gravel, dirt, and sand) with a five percent or greater silt content.<br>• Suspend all excavating and grading operations when wind speeds (as instantaneous gusts) exceed 25 miles per hour (mph).<br>• Apply water at least three times daily, except during periods of rainfall, to all unpaved road surfaces.<br>• Limit traffic speeds on unpaved road to 15 mph or less.<br>• Prohibit high emission causing fugitive dust activities on days where violations of the ambient air quality standard have been forecast by SCAQMD.<br>• Tarp and/or maintain a minimum of 24 inches of freeboard on trucks hauling dirt, sand, soil, or other loose materials.<br>• Limit the amount of daily soil and/or demolition debris loaded and hauled per day.<br>**General Construction**<br>• Utilize ultra-low VOC or zero-VOC surface coatings.<br>• Phase construction activities to minimize maximum daily emissions.<br>• Configure construction parking to minimize traffic interference.<br>• Provide temporary traffic control during construction activities to improve traffic flow (e.g., flag person).<br>• Develop a trip reduction plan for construction employees.<br>• Implement a shuttle service to and from retail services and food establishments during lunch hours.<br>• Increase distance between emission sources to reduce near-field emission impacts.<br>• Require construction contractors to document compliance with the identified mitigation measures. |
| SC-AQ-5 | LAUSD shall encourage ride-sharing programs for students and teachers as well as maintain fleet vehicles such as school buses, maintenance vehicles, and other service fleet vehicles in good condition in order to prevent significant increases in air pollutant emissions created by operation of a new school. |

According to the Program EIR, projects implemented under the SUP are anticipated to have less than significant and potentially significant impacts on air quality within the LAUSD service area. However, the Project-specific analysis provided below concludes that implementation of the San Pedro High School Comprehensive Modernization Project would have less than significant impacts on the surrounding community.

The SUP Program EIR includes SCs for minimizing impacts related to GHG emissions in areas where future projects would be implemented under the SUP. Applicable SCs related to greenhouse gas emissions impacts associated with the proposed Project are provided in **Table 8,** *Greenhouse Gas Emissions Standard Conditions of Approval*. Projects implemented under the SUP are anticipated to have less than significant and potentially significant impacts related to climate change within the LAUSD service area with the incorporation of SCs. The Project-specific analysis provided below determined that implementation of the proposed Project would have less-than-significant impacts related to climate change with the incorporation of SCs.

**TABLE 8**
**GREENHOUSE GAS EMISSIONS STANDARD CONDITIONS OF APPROVAL**

| Applicable SCs | Description |
|---|---|
| SC-GHG-1 | During school operation, LAUSD shall perform regular preventative maintenance on pumps, valves, piping and tanks to minimize water loss. |
| SC-GHG-2 | LAUSD shall utilize automatic sprinklers set to irrigate landscaping during the early morning hours to reduce water loss from evaporation. |
| SC-GHG-3 | LAUSD shall reset automatic sprinkler timers to water less during cooler months and rainy season. |
| SC-GHG-4 | LAUSD shall develop a water budget for landscape (both non-recreational and recreational) and ornamental water use to conform to the local water efficient landscape ordinance. If no local ordinance is applicable, then use the landscape and ornamental budget outlined by the California Department of Water Resources. |
| SC-GHG-5 | LAUSD shall ensure that the time dependent valued energy of the proposed Project design is at least 10 percent, with a goal of 20 percent less than a standard design that is in minimum compliance with the California Title 24, Part 6 energy efficiency standards that are in force at the time the Project is submitted to the Division of the State Architect.. |

# 3. Significance Thresholds

## 3.1 Air Quality Thresholds

Pursuant to Appendix G of the State *CEQA Guidelines*, the Project would result in a significant impact related to air quality if it would:

a) Conflict with or obstruct the implementation of the applicable air quality plan;

b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation;

c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors);

d) Expose sensitive receptors to substantial pollutant concentrations; or

e) Create objectionable odors affecting a substantial number of people.

Pursuant to the State CEQA Guidelines (Section 15064.7), a lead agency may consider using, when available, the significance criteria established by the applicable air quality management district or air pollution control district when making determinations of significance. The Project would be under the SCAQMD's jurisdiction. SCAQMD has established air quality significance criteria in its CEQA Air Quality Handbook. These criteria are based on the recognition that the Air Basin is a distinct geographic area with a critical air pollution problem for which ambient air quality standards have been promulgated to protect public health.[49] The potential air quality impacts of the Project are, therefore, evaluated according to the most recent criteria adopted by the SCAQMD in connection with its CEQA Air Quality Handbook, Air Quality Analysis Guidance Handbook, and subsequent SCAQMD guidance as discussed previously.[50]

### 3.1.1 Construction Emissions

The SCAQMD has established numerical emission indicators of significance for construction. The numerical emission indicators are based on the recognition that the Air Basin is a distinct geographic area with a critical air pollution problem for which ambient air quality standards have been promulgated to protect public health.[51] Given that construction impacts are temporary and limited to the construction phase, the SCAQMD has established numeric indicators of significance specific to construction activity. Based on the indicators in the SCAQMD CEQA Air Quality Handbook, the Project would potentially cause or contribute to an exceedance of an ambient air quality standard if the following would occur:

- Regional construction emissions from both direct and indirect sources would exceed any of the following SCAQMD prescribed daily regional emissions criteria:[52]
  - 75 pounds a day for VOC;
  - 100 pounds per day for $NO_X$;
  - 550 pounds per day for CO;
  - 150 pounds per day for $SO_2$;
  - 150 pounds per day for PM10; or
  - 55 pounds per day for PM2.5.

49 South Coast Air Quality Management District, CEQA Air Quality Handbook (1993) 6-2.

50 While the SCAQMD CEQA Air Quality Handbook contains significance thresholds for lead, Project construction and operation would not include sources of lead emissions and would not exceed the established thresholds for lead. Unleaded fuel and unleaded paints have virtually eliminated lead emissions from commercial and residential land use projects such as the Project. As a result, lead emissions are not further evaluated in this Draft EIR.

51 South Coast Air Quality Management District, CEQA Air Quality Handbook (1993) 6-2.

52 South Coast Air Quality Management District, SCAQMD Air Quality Significance Thresholds, (March 2015), http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2. Accessed October 2017.

In addition, the SCAQMD has developed a methodology to assess the potential for localized emissions to cause an exceedance of applicable ambient air quality standards or ambient concentration limits. Impacts would be considered significant if the following would occur:

- Maximum daily localized emissions of $NO_X$ and/or CO during construction are greater than the applicable localized significance thresholds, resulting in predicted ambient concentrations in the vicinity of the Project site greater than the most stringent ambient air quality standards for $NO_2$ and/or CO.[53]
- Maximum daily localized emissions of PM10 and/or PM2.5 during construction are greater than the applicable localized significance thresholds, resulting in predicted ambient concentrations in the vicinity of the Project site to exceed 10.4 $\mu g/m^3$ over 24 hours (SCAQMD Rule 403 control requirement).

As discussed in detail in Section 4 *Methodology*, the SCAQMD has established screening criteria that can be used to determine the maximum allowable daily emissions that would satisfy the localized significance thresholds, and, therefore not cause, or contribute to, an exceedance of the applicable ambient air quality standards, or ambient concentration limits without project-specific dispersion modeling. This analysis uses the screening criteria to evaluate impacts from localized emissions for a 5-acre site located within 25 meters from a sensitive receptor in the South Los Angeles County Coastal Monitoring Area:

- 57 pounds per day for $NO_X$;
- 585 pounds per day for CO;
- 4 pounds per day for PM10; or
- 3 pounds per day for PM2.5.

### 3.1.2 Operational Emissions

The SCAQMD has established numerical emission indicators of significance for operations. The numerical emission indicators are based on the recognition that the Air Basin is a distinct geographic area with a critical air pollution problem for which ambient air quality standards have been promulgated to protect public health.[54] The SCAQMD has established numeric indicators of significance in part based on Section 182(e) of the Clean Air Act which identifies 10 tons per year of VOC as a significance level for stationary source emissions in extreme non-attainment areas for ozone.[55] The Air Basin is designated as extreme non-attainment for ozone. The SCAQMD converted this significance level to pounds per day for ozone precursor emissions (10 tons per year × 2,000 pounds per ton ÷ 365 days per year = 55 pounds per day). The numeric indicators for other pollutants are also based on federal stationary source significance levels.

53 South Coast Air Quality Management District, Final Localized Significance Threshold Methodology, (2008). Available: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds. Accessed October 2017.

54 South Coast Air Quality Management District, CEQA Air Quality Handbook (1993) 6-2.

55 South Coast Air Quality Management District, CEQA Air Quality Handbook (1993) 6-1.

Based on the indicators in the SCAQMD CEQA Air Quality Handbook, the Project would potentially cause or contribute to an exceedance of an ambient air quality standard if the following would occur:

- Regional operational emissions exceed any of the following SCAQMD prescribed daily regional emissions criteria:[56]
  - 55 pounds a day for VOC;
  - 55 pounds per day for NOX;
  - 550 pounds per day for CO;
  - 150 pounds per day for SO2;
  - 150 pounds per day for PM10; or
  - 55 pounds per day for PM2.5.

In addition, the SCAQMD has developed a methodology to assess the potential for localized emissions to cause an exceedance of applicable ambient air quality standards. Impacts would be considered significant if the following were to occur:

- Maximum daily localized emissions of $NO_X$ and/or CO during operation are greater than the applicable localized significance thresholds, resulting in predicted ambient concentrations in the vicinity of the Project site greater than the most stringent ambient air quality standards for $NO_2$ and/or CO.[57]
- Maximum daily localized emissions of PM10 and/or PM2.5 during operation are greater than the applicable localized significance thresholds, resulting in predicted ambient concentrations in the vicinity of the Project site to exceed 2.5 $\mu g/m^3$ over 24 hours (SCAQMD Rule 1303 allowable change in concentration).

### 3.1.3 Carbon Monoxide Hotspots

With respect to the formation of CO hotspots, the Project would be considered significant if the following would occur:

- The Project would cause or contribute to an exceedance of the CAAQS one-hour or eight-hour CO standards of 20 or 9.0 parts per million (ppm), respectively.

### 3.1.4 Toxic Air Contaminants

Based on criteria set forth by the SCAQMD, the Project would expose sensitive receptors to substantial concentrations of toxic air contaminants if any of the following were to occur:[58]

56 South Coast Air Quality Management District, SCAQMD Air Quality Significance Thresholds, (March 2015), http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2. Accessed October 2017.

57 South Coast Air Quality Management District, SCAQMD Air Quality Significance Thresholds, (March 2015), http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2. Accessed October 2017.

58 South Coast Air Quality Management District, CEQA Air Quality Handbook, Chapter 6 (Determining the Air Quality Significance of a Project) and Chapter 10 (Assessing Toxic Air Pollutants), (1993); SCAQMD Air Quality

- The Project would emit carcinogenic materials or TACs that exceed the maximum incremental cancer risk of ten in one million or a cancer burden greater than 0.5 excess cancer cases (in areas greater than or equal to 1 in 1 million) or
- An acute or chronic hazard index of 1.0.

### 3.1.5 Odors

Based on the criteria in Appendix G of the State *CEQA Guidelines*, the Project would be considered potentially significant for odors if the Project would create objectionable odors affecting a substantial number of people.

## 3.2 Greenhouse Gas Emissions Thresholds

Pursuant to Appendix G of the State *CEQA Guidelines*, the Project would result in a significant impact related to GHG emissions if it would:

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

b) Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

As discussed in the Program EIR, for projects that are not exempt or where no qualifying GHG reduction plans are directly applicable, the SCAQMD proposed a "bright-line" screening-level threshold of 3,000 $MTCO_2e$ annually for all land use projects. The SCAQMD proposed this "bright-line" screening-level threshold "to achieve the same policy objective of capturing 90 percent of the GHG emissions from new development projects in the residential/commercial sectors."[59] In the California Air Pollution Control Officers Association (CAPCOA) *CEQA and Climate Change* white paper (January 2008), CAPCOA suggested a possible quantitative threshold option that would capture 90 percent of GHG emissions from future discretionary development projects. According to CAPCOA, the "objective was to set the emission threshold low enough to capture a substantial fraction of future residential and nonresidential development that will be constructed to accommodate future statewide population and job growth, while setting the emission threshold high enough to exclude small development projects that will contribute a relatively small fraction of the cumulative statewide GHG emissions."[60] A 90 percent capture rate would "exclude the smallest proposed developments from potentially burdensome requirements … to mitigate GHG emissions."[61] The SCAQMD's proposed screening level of 3,000 $MTCO_2e$ per year is a South Coast Air Basin-specific level that would meet CAPCOA's

Significance Thresholds, (March 2011), http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2. Accessed October 2017.

59 South Coast Air Quality Management District, Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold, Appendix E, p. 2-6, (2008). Available at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/ghgattachmente.pdf?sfvrsn=2. Accessed May 2017.

60 California Air Pollution Control Officer's Association, CEQA and Climate Change, (2008) 42-43.

61 California Air Pollution Control Officer's Association, CEQA and Climate Change, (2008) 43-44.

intent for the suggested quantitative threshold option and is consistent with the Program EIR. Therefore, this threshold is used to evaluate Project GHG emissions.

# 4. Methodology

The methodology to evaluate potential impacts to regional and local air quality and climate change that may result from the construction and long-term operations of the proposed Project is conducted as follows. Detailed assumptions, modeling, and calculations are provided in Appendix A of this report.

## 4.1 Consistency with Air Quality Plan

The SCAQMD is required, pursuant to the CAA, to reduce emissions of criteria pollutants for which the Air Basin is in non-attainment of the NAAQS (e.g., $O_3$ and PM2.5). The SCAQMD's AQMP contains a comprehensive list of pollution control strategies directed at reducing emissions and achieving the NAAQS. These strategies are developed, in part, based on regional growth projections prepared by the SCAG. As part of its air quality planning, SCAG has prepared the Regional Comprehensive Plan and Guide and the RTP/SCS, which provide the basis for the land use and transportation components of the AQMP and are used in the preparation of the air quality forecasts and the consistency analysis included in the AQMP. Both the Regional Comprehensive Plan and AQMP are based, in part, on projections originating with county and city general plans.

The 2016 AQMP was prepared to accommodate growth, reduce the high levels of pollutants within the areas under the jurisdiction of SCAQMD, return clean air to the region, and minimize the impact on the economy. Projects that are consistent with the assumptions used in the AQMP do not interfere with attainment because the growth is included in the projections utilized in the formulation of the AQMP. Thus, projects, uses, and activities that are consistent with the applicable growth projections and control strategies used in the development of the AQMP would not jeopardize attainment of the air quality levels identified in the AQMP, even if they exceed the SCAQMD's numeric indicators.

## 4.2 Air Quality Construction Emissions

Construction of the proposed Project has the potential to generate temporary criteria pollutant emissions through the use of heavy-duty construction equipment, such as excavators and forklifts, and through vehicle trips generated from worker trips and haul trucks traveling to, and from, the Project Site. In addition, fugitive dust emissions would result from demolition and various soil-handling activities. Mobile source emissions, primarily $NO_X$, would result from the use of construction equipment such as dozers and loaders. Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of construction activity, and prevailing weather conditions. The assessment of construction air quality impacts considers each of these potential sources.

Daily regional emissions during construction are forecasted by assuming conservative construction activities (i.e., assuming all construction occurs at the earliest feasible date) and

applying the mobile source and fugitive dust emissions factors. The emissions are estimated using the CalEEMod (Version 2016.3.2) software, an emissions inventory software program recommended by the SCAQMD. CalEEMod is based on outputs from OFFROAD and EMFAC, which are emissions estimation models developed by CARB and used to calculate emissions from construction activities, including on-and off-road vehicles. Default CalEEMod inputs were used for the modeling unless project specific details were available to adjust the Project input values based on construction equipment and schedule information from similar land use development projects in the LAUSD. These values were then applied to the construction phasing assumptions used in the criteria pollutant analysis to generate criteria pollutant emissions values for each construction activity. Detailed construction equipment lists, construction scheduling, and emissions calculations are provided in Appendix A of this report.

Construction of the proposed Project was assumed to begin in 2020. Construction may commence at a later date than that analyzed in this air quality impact analysis. If this occurs, construction impacts should be less than those analyzed herein, because a more energy-efficient and cleaner burning construction equipment fleet mix are expected in the future, pursuant to State regulations that require construction equipment fleet operators to phase-in less polluting heavy-duty equipment. As a result, should the proposed Project commence construction at a later date, air quality impacts are anticipated to be less than the impacts disclosed herein. Sub-phases of construction would include soil removal, demolition, grading, building construction, paving, and architectural coating. Emissions from these activities are estimated by construction phase. The maximum daily emissions are predicted values for the worst-case day and do not necessarily represent the emissions that would occur for every day of Project construction. The maximum daily emissions are compared to the SCAQMD daily regional numeric indicators.

## 4.3 Air Quality Operational Emissions

With respect to SUP modernization projects, the Program EIR states that operational activities would be less than significant, as these projects would not increase capacity to existing schools and net project emissions would be minimal. Additionally, overall District enrollment is forecast to decrease over the next ten years and operational emissions are not expected to increase in the long-term.[62]

The proposed Project would replace and upgrade facilities on the campus of San Pedro HS, but it would not increase the number of students, or faculty, at the high school, and would not introduce major new emission sources. No new vehicle trips would be generated, and there would be no increase in mobile source emissions. Furthermore, building upgrades and replacement of old, energy-inefficient structures with those that use less energy would reduce emissions from space heating and other onsite sources. Therefore, there would be no net increase in regional emissions of any criteria pollutant, and the impact would be less than significant. Additionally, the District is required to comply with all applicable SCs, and would implement SC-AQ-5 to further reduce

62 Los Angeles Unified School District. 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015

Project-related operational impacts. Therefore, operational emissions are not discussed further in this document.

## 4.4 Substantial Criteria Pollutant Concentrations

### 4.4.1 Localized emissions

The localized effects from the on-site portion of the emissions are evaluated at nearby sensitive receptor locations potentially impacted by the proposed Project according to the SCAQMD's Localized Significance Threshold Methodology (June 2003, revised July 2008), which relies on onsite mass emission rate screening tables and project-specific dispersion modeling, where appropriate. The localized significance thresholds are only applicable to $NO_X$, CO, PM10, and PM2.5. The SCAQMD has established screening criteria that can be used to determine the maximum allowable daily emissions that would satisfy the localized significance thresholds, and, therefore, would not cause, or contribute to, an exceedance of the applicable ambient air quality standards without Project-specific dispersion modeling. The screening criteria depend on: (1) the area in which the Project is located, (2) the size of the project site, and (3) the distance between the project site and the nearest sensitive receptor (e.g., residences, schools, hospitals). The Project site is located in the South Coastal Los Angeles County area and approximately 1-acre would be worked on at a time. The nearest sensitive receptors would be the students onsite at San Pedro HS during construction of the Project and residences adjacent to the Project site. Therefore, to ensure a conservative analysis, the screening criteria was applied to a 1-acre site in South Coastal Los Angeles with a 25-meter receptor distance. According to the SCAQMD, projects with boundaries located closer than 25 meters to the nearest receptor should use the local significance thresholds (LSTs) for receptors located at 25 meters.[63]

### 4.4.2 Carbon Monoxide Hotspots

Emissions of CO are produced in greatest quantities from motor vehicle combustion and are usually concentrated at, or near, ground level because they do not readily disperse into the atmosphere, particularly under cool, stable (i.e., low or no wind) atmospheric conditions. Localized areas where ambient concentrations exceed state and/or federal standards are termed CO hotspots. The potential for the Project to cause, or contribute, to the formation of offsite CO hotspots are evaluated based on prior dispersion modeling conducted by SCAQMD in the Los Angeles Area, as discussed in the Program EIR.

The proposed Project would replace, or upgrade, facilities on the campus of San Pedro HS, but it would not increase the number of students, or faculty, at the high school, and would not introduce major new emission sources. No new operational vehicle trips would be generated, and there would be no increase in mobile source CO emissions. Therefore, CO Hotspots are not discussed further in this document.

63 South Coast Air Quality Management District, Final Localized Significance Threshold Methodology, (2008). Available: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds. Accessed November 2017.

### 4.4.3 Toxic Air Contaminants

The greatest potential for TAC emissions during construction would be related to diesel particulate matter emissions associated with heavy-duty equipment during demolition, excavation and grading activities. Construction activities associated with the Project would be sporadic, transitory, and short-term in nature. During long-term operations, TACs could be emitted as part of periodic maintenance operations, cleaning, painting, etc., and from periodic visits from delivery trucks and service vehicles. However, these uses are expected to be occasional and result in minimal exposure to offsite sensitive receptors. The potential for the Project to result in significant health risk impacts are evaluated based on guidance provided in the Program EIR.

## 4.5 Odors

Potential odor impacts are evaluated by conducting a screening-level analysis followed by a more detailed analysis as necessary. The screening-level analysis consists of reviewing the Project's site plan and Project description to identify new, or modified, odor sources. If it is determined that the Project would introduce a potentially significant new odor source, or modify an existing odor source, then downwind sensitive receptor locations are identified, and a site-specific analysis is conducted to determine Project impacts.

## 4.6 GHG Emissions Estimates

The Climate Action Registry General Reporting Protocol provides procedures and guidelines for calculating and reporting GHG emissions from general and industry-specific activities. Although no numerical thresholds of significance have been adopted, and no specific protocols are available for land use projects, the General Reporting Protocol provides a framework for calculating and reporting GHG emissions from the Project. The GHG emissions provided in this section is consistent with the General Reporting Protocol framework. This technical report provides an estimate of the GHG emissions from Project construction. The following Project-related emission sources have been evaluated:

1. Construction Activities – Fossil fueled on- and off-road vehicles and equipment needed for grading, building construction, paving, and architectural coating.

CARB believes that consideration of so-called indirect emissions provides a more complete picture of the GHG footprint of a facility: "As facilities consider changes that would affect their emissions – addition of a cogeneration unit to boost overall efficiency even as it increases direct emissions, for example – the relative impact on total (direct plus indirect) emissions by the facility should be monitored. Annually reported indirect energy usage also aids the conservation awareness of the facility and provides information" to CARB to be considered for future strategies by the industrial sector. For these reasons, CARB has proposed requiring the calculation of direct and indirect GHG emissions as part of the HSC Division 25.5 reporting requirements. Additionally, the Office of Planning and Research directs lead agencies to "make a good-faith effort, based on available information, to calculate, model, or estimate…GHG emissions from a project, including the emissions associated with vehicular traffic, energy consumption, water usage and construction activities." Therefore, direct and indirect emissions have been calculated for the Project.

For purposes of this analysis, it is considered reasonable and consistent with criteria pollutant calculations to consider those GHG emissions resulting from Project-related incremental (net) increase in the use of on-road mobile vehicles, electricity, and natural gas compared to existing conditions. This includes Project construction activities such as demolition, hauling, and construction worker trips. Since potential impacts resulting from GHG emissions are long-term rather than acute, GHG emissions are calculated on an annual basis. CalEEMod outputs GHG emissions of $CO_2$, $CH_4$, $N_2O$, and $CO_2e$. In order to report total GHG emissions using the $CO_2e$ metric, the GWP ratios corresponding to the warming potential of $CO_2$ over a 100-year period is used in this analysis.

The General Reporting Protocol provides a range of basic calculation methods. However, they are typically designed for existing buildings, or facilities, and are not directly applicable to planning and development situations where the buildings, or facilities, do not yet exist. As a result, this section relies on calculation guidance from state and regional agencies with scientific expertise in quantifying GHG emissions, such as CARB and the SCAQMD. GHG emissions for the Project are estimated using the CalEEMod (Version 2016.3.2) software.

The CAPCOA has provided guidance on mitigating, or reducing, GHG emissions from land use development projects. In September 2010, CAPCOA released a guidance document titled *Quantifying Greenhouse Gas Mitigation Measures* which provides GHG reduction values for recommended mitigation measures.[64] The CAPCOA guidance document was utilized in this analysis for quantifying reductions from physical and operational Project characteristics and Project Sustainability Features in CalEEMod.

### 4.6.1 Construction Emissions

Construction of the proposed Project has the potential to generate GHG emissions through the use of heavy-duty construction equipment and through vehicle trips generated from construction workers traveling to, and from, the Project site. Construction emissions can vary from day to day, depending on the level of activity, the specific type of operation, and the prevailing weather conditions. The number and types of construction equipment, vendor trips (e.g., transport of building materials), and worker trips were based on relatively conservative assumptions for a project of this type and scale as provided in the CalEEMod model. A complete listing of the construction equipment by phase and construction phase duration assumptions used in this analysis is included in Appendix A of this Technical Report.

The $CO_2e$ emissions are calculated for the construction period. The SCAQMD guidance, *Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold*, recognizes that construction-related GHG emissions from projects "occur over a relatively short-term period of time" and that "they contribute a relatively small portion of the overall lifetime project GHG emissions."[65] The guidance recommends that construction project GHG emissions

64 California Air Pollution Control Officers Association, Quantifying Greenhouse Gas Mitigation Measures, 2010.

65 South Coast Air Quality Management District, Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold, 2008, page 3-9, http://www.aqmd.gov/docs/default-

should be "amortized over a 30-year project lifetime, so that GHG reduction measures will address construction GHG emissions as part of the operational GHG reduction strategies."[66] In accordance with SCAQMD guidance, GHG emissions from construction have been amortized over the 30-year lifetime of the Project (i.e., total construction GHG emissions were divided by 30 to determine an annual construction emissions estimate comparable to operational emissions, and the significance threshold).

#### *Emissions Sources*

Construction of the Project would result in one-time GHG emissions of $CO_2$ and smaller amounts of $CH_4$ from heavy-duty construction equipment. Construction emissions are forecasted by assuming a conservative estimate of construction activities (i.e., assuming all construction occurs at the earliest feasible date) and applying the off-road emissions factors. The output values used in this analysis are adjusted to be Project-specific based on equipment types and the construction schedule. These values are applied to the construction phasing assumptions to generate GHG emissions values for each construction year.

Construction of the Project would also contribute to regional GHG emissions from haul trucks and worker vehicles. The emissions from mobile sources were calculated with the trip rates, trip lengths and emission factors for running from EMFAC2014 through CalEEMod.

### 4.6.2 Operational Emissions

The proposed Project would replace or upgrade facilities on the campus of San Pedro HS, but it would not increase the number of students, or faculty, at the high school, and would not introduce major new emission sources. No new vehicle trips would be generated, and there would be no increase in mobile source emissions. Furthermore, building upgrades and replacement of old, energy-inefficient structures with those that use less energy would reduce emissions from space heating and other on-site sources. Therefore, there would be no net increase in GHGs, and the impact would be less than significant. Additionally, the District is required to comply with all applicable SCs, which will further reduce Project-related operational impacts. Therefore, operational emissions are not discussed further in this document.

# 5. Environmental Impacts

## 5.1 Consistency with Air Quality Plan

The Project site is located within the Air Basin. The SCAQMD is required, pursuant to the CAA, to reduce emissions of criteria pollutants for which the Air Basin is in non-attainment (i.e., ozone, PM10, and PM2.5). The Project would be subject to the SCAQMD's Air Quality Management Plan (AQMP), which contains a comprehensive list of pollution control strategies directed at reducing emissions and achieving ambient air quality standards. A project is consistent with the AQMP if it is consistent with the population, housing and employment assumptions that were

source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/ghgattachmente.pdf. Accessed July 2017.

66 South Coast Air Quality Management District, Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold, 2008, page 3-9.

used in the development of the AQMP. Neither the San Pedro High School Comprehensive Modernization Project nor the SUP as a whole is a large, regionally significant project that would affect the regional growth projections made by the SCAG and used by the SCAQMD in formulating its AQMP. The student and faculty population at the school would not increase as a result of the Project.

### 5.1.1 Construction

Under this criterion, the SCAQMD recommends that lead agencies demonstrate that a project would not directly obstruct implementation of an applicable air quality plan and that a project be consistent with the assumptions (typically land-use related, such as resultant employment or residential units) upon which the air quality plan is based. Being relatively small in number and temporary in nature, construction jobs under the Project would not conflict with the long-term employment projections upon which the AQMP is based. Control strategies in the AQMP with potential applicability to short-term emissions from construction activities include strategies denoted in the AQMP as MOB-08 and MOB-10, which are intended to reduce emissions from on-road and off-road heavy-duty vehicles and equipment by accelerating replacement of older, emissions-prone engines with newer engines meeting more stringent emission standards. The Project would not conflict with implementation of these strategies as the construction contractor hired would be in compliance with the current requirements for fleet emissions. Additionally, the Project would comply with CARB requirements to minimize short-term emissions from on-road and off-road diesel equipment. The Project would also comply with SCAQMD regulations for controlling fugitive dust pursuant to SCAQMD Rule 403 and implement SC-AQ-2 through SC-AQ-4. SC-AQ-2 would obligate construction contractors to have off-road equipment properly tuned and maintained in accordance with the manufacturer's specifications. SC-AQ-3 would implement methods for reducing onsite dust emissions during soil removal. These methods would include: maintain slow speeds for vehicles, applying water/mist to dirt as it is loaded and unloaded, minimize soil drop heights, covering haul truck loads, and using polyethylene sheeting during to cover excavated areas and dirt stockpiles. SC-AQ-4 is intended to reduce construction exhaust and fugitive dust emissions with a number of features, including, but not limited to: restricting diesel engine idling times to no more than five consecutive minutes, utilizing ultra-low sulfur diesel fuel, utilizing off-road construction equipment that is compliant with Tier 3 engine standards at a minimum, applying soil stabilizers, replacing ground cover as soon as possible, and installing wheel washers.

Compliance with these requirements is consistent with, and meets, or exceeds, the AQMP requirements for control strategies intended to reduce emissions from construction equipment and activities. Because the Project would not conflict with the control strategies intended to reduce emissions from construction equipment, the Project would not conflict with, or obstruct, implementation of the AQMP. Additionally, the projected emissions from the Project would not exceed the SCAQMD's regional significance thresholds, as discussed below in Section 5.2-1. Thus, the Project would not be considered by SCAQMD to be a substantial source of air pollutant emissions, and would not conflict, or obstruct, implementation of the AQMP. Therefore, impacts would be less than significant with respect to construction activities.

# 5.2 Regional Emissions

## 5.2.1 Construction Emissions

The worst-case daily emissions were calculated as maximum daily construction emissions for each phase by year. Detailed emissions calculations are provided in Appendix A. Results of the criteria pollutant calculations are presented in **Table 9,** Maximum Daily Unmitigated Regional Construction Emissions (pounds per day). As shown therein, construction-related daily emissions for the criteria and precursor pollutants (VOC, $NO_X$, CO, $SO_X$, PM10, and PM2.5) would be below the SCAQMD numeric indicators. These calculations include compliance with appropriate dust control measures required to be implemented during each phase of development, as required by SCAQMD Rule 403 (Control of Fugitive Dust) and SC-AQ-2 through SC-AQ-4. As discussed previously, SC-AQ-2 would obligate construction contractors to have off-road equipment properly tuned and maintained in accordance with the manufacturer's specifications. SC-AQ-3 would implement methods for reducing onsite dust emissions during soil removal. SC-AQ-4 is intended to reduce construction exhaust and fugitive dusts emissions with a number of features including utilizing off-road construction equipment that is compliant with Tier 3 engine standards (at a minimum) and applying soil stabilizers. Therefore, with respect to regional emissions from construction activities, impacts would be less than significant.

**TABLE 9**
**MAXIMUM DAILY UNMITIGATED REGIONAL CONSTRUCTION EMISSIONS (POUNDS PER DAY) [A]**

| Phase | Source | VOC | $NO_X$ | CO | $SO_2$ | PM10[b] | PM2.5 [b] |
|---|---|---|---|---|---|---|---|
| Phase 1A | Demolition (& soil removal) – 2020 | 2 | 51 | 25 | <1 | 4 | 2 |
| | Grading/Modernization – 2020 | 1 | 7 | 12 | <1 | 3 | 2 |
| | Building Construction - 2020 | 2 | 15 | 22 | <1 | 4 | 1 |
| | Building Construction – 2021 | 2 | 14 | 21 | <1 | 4 | 1 |
| | Architectural Coatings – 2021 | 33 | 2 | 13 | <1 | 3 | 1 |
| Phase 1B | Grading/Modernization – 2020 | 1 | 7 | 12 | <1 | 3 | 2 |
| | Building Construction- 2020 | 2 | 16 | 23 | <1 | 4 | 2 |
| | Paving – 2020 | 2 | 12 | 30 | <1 | 4 | 2 |
| Phase 2 | Demolition – 2020 | 2 | 24 | 31 | <1 | 6 | 2 |
| | Grading/Modernization – 2020 | 2 | 8 | 20 | <1 | 6 | 2 |
| | Building Construction – 2020 | 1 | 14 | 14 | <1 | 2 | 1 |
| | Building Construction – 2021 | 1 | 13 | 14 | <1 | 2 | 1 |
| | Building Construction – 2022 | 1 | 13 | 13 | <1 | 2 | 1 |
| | Architectural Coating – 2022 | 17 | 2 | 12 | <1 | 3 | 1 |
| Phase 3 | Demolition – 2022 | 2 | 13 | 27 | <1 | 4 | 2 |
| | Paving - 2022 | 1 | 12 | 21 | <1 | 2 | 1 |
| **Overlapping Phases** | | | | | | | |
| **2020** | | | | | | | |
| Phase 1A Building Construction + Phase 1B Grading/Modernization | | 3 | 22 | 34 | <1 | 8 | 3 |

| Phase Source | VOC | $NO_X$ | CO | $SO_2$ | PM10[b] | PM2.5 [b] |
|---|---|---|---|---|---|---|
| Phase 1A Building Construction + Phase 1B Building Construction | 4 | 30 | 45 | <1 | 9 | 3 |
| Phase 1A Building Construction + Phase 1B Building Construction +Phase 2 Demolition | 7 | 54 | 76 | <1 | 15 | 5 |
| Phase 1A Building Construction + Phase 1B Building Construction +Phase 2 Grading/Modernization | 6 | 38 | 65 | <1 | 14 | 5 |
| Phase 1A Building Construction + Phase 1B Paving + Phase 2 Grading/Modernization | 6 | 35 | 72 | <1 | 14 | 5 |
| Phase 1A Building Construction + Phase 2 Grading/Modernization | 4 | 22 | 42 | <1 | 10 | 4 |
| Phase 1A Building Construction + Phase 2 Building Construction | 3 | 29 | 37 | <1 | 6 | 2 |
| **2021** | | | | | | |
| Phase 1A Building Construction + Phase 2 Building Construction | 3 | 27 | 35 | <1 | 6 | 2 |
| Phase 1A Architectural Coating + Phase 2 Building Construction | 36 | 29 | 48 | <1 | 10 | 3 |
| **2022** | | | | | | |
| Phase 2 Building Construction + Phase 2 Architectural Coating + Phase 3 Demolition | 20 | 29 | 52 | <1 | 10 | 3 |
| Phase 2 Architectural Coating + Phase 3 Demolition | 18 | 16 | 39 | <1 | 8 | 3 |
| **Maximum Daily Emissions** | **36** | **54** | **76** | **<1** | **15** | **5** |
| **SCAQMD Significance Thresholds** | **75** | **100** | **550** | **150** | **150** | **55** |
| Exceeds Threshold? | No | No | No | No | No | No |

NOTE: Detailed emissions calculations are provided in Appendix A.

[a] Totals may not add up exactly due to rounding in the modeling calculations Detailed emissions calculations are provided in Appendix A.

[b] Emissions include fugitive dust control measures consistent with SCAQMD Rule 403.

With respect to all SUP projects, including the proposed Project, the Program EIR states that construction activities may generate short-term emissions that exceed significance thresholds. Though construction emissions for this Project are not expected to exceed regional thresholds, the District will implement SCs AQ-2, SC-AQ-3, and AQ-4 to ensure that construction emissions would have minimal impacts. Also, criteria pollutant emissions would occur outside of SCAQMD's jurisdiction during transportation of contaminated soil to Buttonwillow, California. Transportation of contaminated soil would occur within the San Joaquin Valley Air Pollution District (SJVAPD). The Project would be substantially below the SJVAPD's Thresholds of Significance for all criteria pollutants, as shown in **Table 10,** San Joaquin Valley Air Basin Hauling Emissions (Tons per Year).

**TABLE 10**
**SAN JOAQUIN VALLEY AIR BASIN HAULING EMISSIONS (TONS PER YEAR)**

| Phase | Source | VOC | $NO_X$ | CO | $SO_2$ | PM10[b] | PM2.5 [b] |
|---|---|---|---|---|---|---|---|
| Phase 1A | Soil Removal – 2020 | 0.08 | 3.31 | 0.32 | 0.01 | 0.08 | 0.04 |
| **SJVAPD Significance Thresholds** | | **10** | **10** | **100** | **27** | **15** | **15** |
| Exceeds Threshold? | | No | No | No | No | No | No |

NOTE: Detailed emissions calculations are provided in Appendix A.

[a] Totals may not add up exactly due to rounding in the modeling calculations Detailed emissions calculations are provided in Appendix A.

[b] Emissions include fugitive dust control measures consistent with SCAQMD Rule 403.

## 5.3 Cumulatively Considerable Non-Attainment Pollutants

Short-term pollutants would be generated by construction of the proposed Project. The Project site currently operates as a high school and would continue do so after construction. The proposed Project would not introduce any new long-term pollutants when operational. Therefore, only short-term construction emissions were evaluated for cumulative impacts.

Since the District has no control over the timing or sequencing of the related projects, any quantitative analysis of related projects to ascertain daily construction emissions that assumes multiple, concurrent construction projects would be speculative. For this reason, the SCAQMD's methodology to assess a project's cumulative impact differs from the cumulative impacts methodology employed elsewhere in this Draft EIR analysis. The SCAQMD recommends that Project-specific air quality impacts of the proposed Project be used to determine the potential cumulative impacts to regional air quality. The proposed Project would result in the emission of criteria pollutants for which the area is in non-attainment during construction. A significant impact may occur if a project would add a cumulatively considerable contribution of a federal or state non-attainment pollutant. The Air Basin is currently in non-attainment for $O_3$, PM10, and PM2.5.

The emissions from construction of the proposed Project are not predicted to exceed the SCAQMD regional (see Section 5.2), or localized (see Section 5.4), impact thresholds, and, therefore, are not expected to cause, or substantially contribute to, ground level concentrations that exceed the NAAQS or CAAQS. Furthermore, the District would implement SC-AQ-2, SC-AQ-3, and SC-AQ-4 to ensure that construction emissions would minimize off-site impacts.[67, 68] Therefore, the Project would not result in a cumulatively considerable net increase for non-attainment pollutants, or $O_3$ precursors, and would result in a less than significant impact for construction emissions.

[67] Los Angeles Unified School District, 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015. Pgs 5.3-28 to 5.3-30.

[68] Los Angeles Unified School District, 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015. Pgs. 5.3-27 to 5.3-28.

# 5.4 Substantial Pollutant Concentrations

## 5.4.1 Localized Construction Emissions

The localized construction air quality analysis was conducted using the methodology described in the SCAQMD *Localized Significance Threshold Methodology* (June 2003, revised July 2008).[69] The screening criteria provided in the *Localized Significance Threshold Methodology* were used to determine localized construction emissions thresholds for the Project. The maximum daily localized emissions for each of the construction phases and localized significance thresholds are presented in **Table 11,** Maximum Unmitigated Localized Construction Emissions (Pounds Per Day) [A]. As shown therein, maximum localized construction emissions for sensitive receptors would not exceed the localized thresholds for $NO_X$, CO, PM10, and PM2.5. Therefore, with respect to localized construction emissions, impacts would be less than significant.

**TABLE 11**
**MAXIMUM UNMITIGATED LOCALIZED CONSTRUCTION EMISSIONS (POUNDS PER DAY) [A]**

| Phase | | $NO_X$ | CO | PM10[b] | PM2.5[b] |
|---|---|---|---|---|---|
| Phase 1A | Demolition (& soil removal) – 2020 | 13 | 16 | 2 | 1 |
| | Grading/Modernization – 2020 | 7 | 8 | 2 | 1 |
| | Building Construction - 2020 | 8 | 9 | <1 | <1 |
| | Building Construction – 2021 | 8 | 9 | <1 | <1 |
| | Architectural Coatings – 2021 | 1 | 2 | <1 | <1 |
| Phase 1B | Grading/Modernization – 2020 | 7 | 8 | 2 | 1 |
| | Building Construction- 2020 | 8 | 9 | <1 | <1 |
| | Paving – 2020 | 11 | 17 | 1 | 1 |
| Phase 2 | Demolition – 2020 | 12 | 16 | 2 | 1 |
| | Grading/Modernization – 2020 | 7 | 8 | 2 | 1 |
| | Building Construction – 2020 | 8 | 9 | <1 | <1 |
| | Building Construction – 2021 | 8 | 9 | <1 | <1 |
| | Building Construction – 2022 | 8 | 9 | <1 | <1 |
| | Architectural Coating – 2022 | 1 | 2 | <1 | <1 |
| Phase 3 | Demolition – 2022 | 12 | 16 | 1 | 1 |
| | Paving - 2022 | 11 | 17 | 1 | 1 |
| **Overlapping Phases** | | | | | |
| **2020** | | | | | |
| Phase 1A Building Construction + Phase 1B Grading/Modernization | | 15 | 16 | **3** | **2** |
| Phase 1A Building Construction + Phase 1B Building Construction | | 16 | 17 | 1 | 1 |
| Phase 1A Building Construction + Phase 1B Building Construction +Phase 2 Demolition | | **28** | 33 | **3** | **2** |
| Phase 1A Building Construction + Phase 1B Building Construction +Phase 2 Grading/Modernization | | 23 | 25 | **3** | **2** |

69 South Coast Air Quality Management District, Localized Significance Thresholds, (2003, revised 2008), http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds. Accessed November 2017.

| Phase | $NO_X$ | CO | PM10[b] | PM2.5[b] |
|---|---|---|---|---|
| Phase 1A Building Construction + Phase 1B Paving + Phase 2 Grading/Modernization | 26 | **34** | **3** | **2** |
| Phase 1A Building Construction + Phase 2 Grading/Modernization | 15 | 16 | **3** | **2** |
| Phase 1A Building Construction + Phase 2 Building Construction | 16 | 17 | 1 | 1 |
| **2021** | | | | |
| Phase 1A Building Construction + Phase 2 Building Construction | 16 | 17 | 1 | 1 |
| Phase 1A Architectural Coating + Phase 2 Building Construction | 17 | 19 | 1 | 1 |
| **2022** | | | | |
| Phase 2 Building Construction + Phase 2 Architectural Coating + Phase 3 Demolition | 21 | 26 | 1 | 1 |
| Phase 2 Architectural Coating + Phase 3 Demolition | 13 | 18 | 1 | 1 |
| **Maximum Daily Emissions** | **28** | **34** | **3** | **2** |
| **SCAQMD Significance Thresholds** | **57** | **585** | **4** | **3** |
| Exceeds Threshold? | No | No | No | No |

NOTE: Detailed emissions calculations are provided in Appendix A.

[a] Totals may not add up exactly due to rounding in the modeling calculations Detailed emissions calculations are provided in Appendix A.

[b] Emissions include fugitive dust control measures consistent with SCAQMD Rule 403.

### 5.4.3 Toxic Air Contaminants

The proposed Project would require approximately one week to remove a maximum of 500 cubic yards of contaminated soil. Project-related construction also has the potential to expose sensitive receptors to substantial pollutant concentrations of TACs. TAC are pollutants for which neither California nor the federal government, has set ambient air quality thresholds, but which still pose health risks to sensitive individuals. The primary TAC of concern from construction is DPM. Inhalation of DPM has been linked to increased cancer risk and chronic health hazards.

The proposed Project includes the modernization and upgrade of facilities on the San Pedro HS campus. The Program EIR states that modernization projects would not cause a change in toxic air contaminant exposure levels.[70] Therefore, health risk impacts for the proposed Project would be less than significant.

## 5.5 Odors

Potential activities that may emit odors during construction activities include the use of architectural coatings and solvents and the combustion of diesel fuel in on-and off-road equipment. As discussed in the Regulatory Setting, Section 2, of this technical report, SCAQMD Rule 1113 would limit the amount of VOCs in architectural coatings and solvents. In addition, the proposed Project would comply with the applicable provisions of the CARB Air Toxics Control

[70] Los Angeles Unified School District, 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015. Pgs. 5.3-33

Measure regarding idling limitations for diesel trucks. Through mandatory compliance with SCAQMD Rules, no construction activities, or materials, are expected to create objectionable odors affecting a substantial number of people. Therefore, construction of the Project would result in less than significant impacts.

# 5.6 Greenhouse Gas Emissions

## 5.6.1 Construction

The proposed Project would replace and modernize existing structures at the San Pedro High School campus. **Table 12**, Project-Specific Construction GHG Emissions (metric tons) shows the proposed Project's GHG emissions.

**TABLE 12**
**PROJECT-SPECIFIC CONSTRUCTION GHG EMISSIONS (METRIC TONS)**

| Emissions Source Year | $CO_2e$ (metric tons) [a] |
|---|---|
| 2020 | 1,269 |
| 2021 | 882 |
| 2022 | 624 |
| **Total** | 2,774 |
| **Annual (Amortized over 30 years)** | 92 |
| **Threshold** | **3,000** |
| **Threshold Exceeded?** | **No** |

[a] Totals may not add up exactly due to rounding in the modeling calculations

SOURCE: ESA, 2017

Although construction activities would increase GHG emissions, those emissions would be relatively minor and would cease after completion of construction. As shown in Table 11, the highest anticipated construction-related emissions associated with the proposed Project would be 1,269 $MTCO_2e$ in the year 2020, which includes construction activities from Phase 1A, Phase 1B, and Phase 2. Typically, GHG construction emissions are amortized over 30 years and added to operational emissions. The proposed Project is expected to add a total of 2,774 $MTCO_2e$ over the three years of construction. The total Project GHG emissions amortized over 30 years would be the equivalent of 92 $MTCO_2e$ over the course of a 30-year period and would be less than the SCAQMD's interim threshold of 3,000 $MTCO_2e$ per year. Based on this, construction impacts would be less than significant. No mitigation or further studies are required.

## 5.6.2 Consistency with Adopted Plan, Policy or Regulation

As described in the Program EIR, implementation of the SUP would be consistent with plans adopted for the purpose of reducing GHG emissions, such as the SCAG Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), California Assembly Bill 32, California Air

Resources Board Scoping Plan, and other statewide strategies to reduce GHG emissions.[71] Development of the proposed Project would replace and modernize facilities at San Pedro HS, but it would not increase the number of students, or faculty, at the school, and, therefore, would not increase GHG emissions. As such, the Project would not conflict with the goals of the RTP/SCS.

Additionally, SUP-related projects, including the proposed Project, would comply with the District's GHG emission reduction measures. LAUSD's School Design Guide requires construction contractors to reuse, recycle, and salvage non-hazardous materials generated during demolition and/or new construction, as materials recovery would minimize the need to produce and transport new materials, thereby reducing emissions from mobile sources and energy use.[72] With respect to all SUP projects, implementation of SCs GHG-1 through GHG-5 would ensure that the proposed Project would not conflict with applicable plans, policies or regulations adopted for the purpose of reducing GHG emissions. Therefore, with adherence to SCs GHG-1 through GHG-5 and compliance with Title 24, the Project would not conflict with plans, policies, or regulations adopted for the purpose of reducing GHG emissions. Therefore, impacts would be less than significant. No mitigation or further studies are required.

# 6. Cumulative Impacts

## 6.1 Air Quality

The Project would result in the emission of criteria pollutants for which the region is in non-attainment during both construction and operation. The Air Basin fails to meet national standards for $O_3$ and PM2.5, and, therefore is considered a federal "non-attainment" area for these pollutants.

The SCAQMD has provided guidance on an acceptable approach to addressing the cumulative impacts issue for air quality as discussed below:[73]

> *As Lead Agency, the AQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR… Projects that exceed the Project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant.*

71 Ibid. Pgs 5.7-18 to 5.7-19.

72 Los Angeles Unified School District, Office of Environmental Health and Safety, School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa, Adopted by the Board of Education on November 10, 2015. Pg. 5.7-18 to 5.7-19.

73 South Coast Air Quality Management District, Cumulative Impacts White Paper, Appendix D, http://www.aqmd.gov/docs/default-source/Agendas/Environmental-Justice/cumulative-impacts-working-group/cumulative-impacts-white-paper-appendix.pdf?sfvrsn=4, accessed May 2017.

Consistent with accepted and established SCAQMD cumulative impact evaluation methodologies, the potential for the Project to results in cumulative impacts is assessed based on the SCAQMD thresholds.

As shown in Table 9, regional emissions calculated for Project would be less than the applicable SCAQMD daily significance thresholds. The thresholds are designed to assist the region in attaining the applicable State and national ambient air quality standards. These standards apply to both primary (criteria and precursor) and secondary pollutants ($O_3$). Although the Project site is located in a region that is in non-attainment for $O_3$ and PM2.5, the emissions associated with the Project would not be cumulatively considerable as the emissions would fall below SCAQMD daily significance thresholds. In addition, the Project would be consistent with the AQMP, which is intended to bring the Air Basin into attainment for all criteria pollutants.

The SCAQMD's methodology to assess a project's cumulative impact differs from the cumulative impacts methodology employed for other environmental topics such as traffic, which are typically based on the number, types, and proximity to related projects. The SCAQMD recommends that Project-specific air quality impacts be used to determine the potential cumulative impacts to regional air quality.

With respect to the Project's short-term construction-related air quality emissions and cumulative conditions, the SCAQMD has developed strategies to reduce criteria pollutant emissions outlined in the AQMP pursuant to the federal CAA mandates. Construction of the Project would comply with SCAQMD Rule 403 requirements and the ATCM to limit heavy duty diesel motor vehicle idling to no more than 5 minutes at any given time (per SC-AQ-4). Per SCAQMD rules and mandates, as well as the CEQA requirement that significant impacts be mitigated to the extent feasible, these same requirements (i.e., Rule 403 compliance, the implementation of all feasible mitigation measures, and compliance with adopted AQMP emissions control measures) would also be imposed on all construction projects in the Air Basin, which would include the cumulative projects in the Project area. As shown above in Table 9 and Table 10, regional and localized construction emissions associated with the Project would not exceed the SCAQMD daily significance thresholds. As such, the Project's contribution to cumulatively significant construction impacts to air quality would not be cumulatively considerable and cumulative impacts would be less than significant for regional and localized criteria pollutants during construction.

## 6.2 Greenhouse Gas Emissions

In 2010, annual worldwide man-made emissions of GHGs were approximately 49,000 $MMTCO_2e$ including ongoing emissions from industrial and agricultural sources and emissions from land use changes (e.g., deforestation).[74] Emissions of $CO_2$ from fossil fuel use and industrial processes account for 65 percent of the total while $CO_2$ emissions from all sources accounts for 76 percent of the total. $CH_4$ emissions account for 16 percent and $N_2O$ emissions for 6.2 percent. In 2015, the United States was the world's second largest emitter of carbon dioxide at 5,200 MMT (China was the largest emitter of carbon dioxide at 10,700 MMT).[75]

As previously discussed, CARB compiles GHG inventories for the State of California. In 2015, California emitted 440.4 $MMTCO_2e$ including emissions resulting from imported electrical power. Between 1990 and 2015, the population of California grew by approximately 31 percent. The California economy grew by 222 percent. Despite the population and economic growth, California's net GHG emissions only grew by approximately 2.2 percent.

A cumulatively considerable impact would occur where the impact of the Project in addition to the related projects would be significant. However, in the case of global climate change, a cumulative impacts analysis differs from other environmental issues areas, such as air quality. The proximity of the Project to other related projects or other GHG emission generating activities is not directly relevant to the determination of a cumulative impact because climate change is a global condition. According to CAPCOA, "GHG impacts are exclusively cumulative impacts; there are no non-cumulative GHG emission impacts from a climate change perspective."[76] Moreover, although the State requires MPOs and other planning agencies to consider how region-wide planning decisions can impact global climate change, there is currently no established non-speculative method to assess the cumulative impact of proposed independent private-party development projects.

Although HSC Division 25.5 sets a statewide target for 2020 GHG emissions, the implementing tools of the law (e.g., CARB's *Climate Change Scoping Plan*) are clear that the reductions are not expected to occur uniformly from all sources or sectors. CARB has set targets specific to the transportation sector (land use-related transportation emissions), for example, and under SB 375 SCAG must incorporate these GHG-reduction goals into the RTP and demonstrate that its SCS, or Alternative Planning Strategy, is consistent with the Regional Housing Needs Assessment. One of the goals of this process is to ensure that the efforts of State, regional and local planning agencies accommodate the contemporaneous increase in population and employment with a decrease in overall GHG emissions. For example, adopting zoning designations that reduce density in areas which are expected to experience growth in population and housing needs, is seen

74 Intergovernmental Panel on Climate Change, Climate Change 2014: Synthesis Report Contribution of Working Groups I, II, and III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change, Summary for Policy Makers, 2014, http://ipcc.ch/report/ar5/syr/. Accessed March 2017.

75 PBL Netherlands Environmental Assessment Agency and the European Commission Joint Research Center, Trends in Global CO2 Emissions 2016 Report, 2016, http://www.pbl.nl/sites/default/files/cms/publicaties/pbl-2016-trends-in-global-co2-emisions-2016-report-2315.pdf. Accessed March 2017.

76 California Air Pollution Control Officers Association, CEQA & Climate Change: Evaluating and Addressing Greenhouse Gas Emissions from Projects Subject to the California Environmental Quality Act, 2008.

as inconsistent with anti-sprawl goals of sustainable planning. Although development under a reduced density scenario results in lower GHG emissions from the use of that land compared to what is currently or hypothetically allowed (by creating fewer units and fewer attributable vehicle trips), total regional GHG emissions will likely fail to decrease at the desired rate or, worse, increase if regional housing and employment needs of an area are met with a larger number of less-intensive development projects. Therefore, it is not simply a cumulative increase in regional development or the resultant GHG emissions that threatens GHG reduction goals.

With implementation of effective planning policies, the land use sector can accommodate growth and still be consistent with statewide plans to reduce GHG emissions. To that end, various agencies are required to develop programs to guide future building and transportation development towards minimized resource consumption and lowered resultant pollution.

As discussed above, the Project would be consistent with plans adopted for the purpose of reducing GHG emissions, such as the SCAG Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), California Assembly Bill 32, California Air Resources Board Scoping Plan, and other statewide strategies to reduce GHG emissions.[77] Development of the proposed Project would replace and modernize facilities at San Pedro HS, but it would not increase the number of students, or faculty, at the school, and, therefore, would not increase GHG emissions. As such, the Project would not conflict with the goals of the RTP/SCS.

Additionally, SUP-related projects, including the proposed Project, would comply with the District's GHG emission reduction measures. LAUSD's School Design Guide requires construction contractors to reuse, recycle, and salvage non-hazardous materials generated during demolition and/or new construction, as materials recovery would minimize the need to produce and transport new materials, thereby reducing emissions from mobile sources and energy use.[78] With respect to all SUP projects, implementation of SCs GHG-1 through GHG-5 would ensure that the proposed Project would not conflict with applicable plans, policies or regulations adopted for the purpose of reducing GHG emissions. Therefore, with adherence to SCs GHG-1 through GHG-5 and compliance with Title 24, the Project would not conflict with plans, policies, or regulations adopted for the purpose of reducing GHG emissions. Additionally, the Project would not exceed the implemented significance threshold of 3,000 MT $CO_2e$ annually. Therefore, Project impacts are not cumulatively considerable.

77 Ibid. Pgs 5.7-18 to 5.7-19.

78 Los Angeles Unified School District, Office of Environmental Health and Safety, School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa, Adopted by the Board of Education on November 10, 2015. Pg. 5.7-18 to 5.7-19.

# APPENDIX A

## Air Quality Emissions Calculation Worksheets

ESA

# Emissions Summary

**San Pedro High School Comprehensive Modernization Project**
**Air Quality Emissions Summary (Maximum)**

| **Maximum Regional Emissions** | **VOC** | **NOX** | **CO** | **SO2** | **Total PM10** | **Total PM2.5** |
|---|---|---|---|---|---|---|
| **Source** | | | | **lbs/day** | | |
| Phase 1A Demolition -2020 | 2 | 51 | 25 | <1 | 4 | 2 |
| Phase 1A-Grading/Modernization-2020 | 1 | 7 | 12 | <1 | 3 | 2 |
| Phase 1 A Building Construction-2020 | 2 | 15 | 22 | <1 | 4 | 1 |
| Phase 1 A Building Construction-2021 | 2 | 14 | 21 | <1 | 4 | 1 |
| Phase 1A-Architectural Coatings-2021 | 33 | 2 | 13 | <1 | 3 | 1 |
| Phase 1B-Grading/Modernization-2020 | 1 | 7 | 12 | <1 | 3 | 2 |
| Phase 1B Building Construction-2020 | 2 | 16 | 23 | <1 | 4 | 2 |
| Phase 1 B Paving | 2 | 12 | 30 | <1 | 4 | 2 |
| Phase 2 Demolition-2020 | 2 | 24 | 31 | <1 | 6 | 2 |
| Phase 2 Grading/Modernization | 2 | 8 | 20 | <1 | 6 | 2 |
| Phase 2 Building Construction-2020 | 1 | 14 | 14 | <1 | 2 | 1 |
| Phase 2 Building Construction-2021 | 1 | 13 | 14 | <1 | 2 | 1 |
| Phase 2 Building Construction-2022 | 1 | 13 | 13 | <1 | 2 | 1 |
| Phase 2 Architectural Coating-2022 | 17 | 2 | 12 | <1 | 3 | 1 |
| Phase 3 Demolition-2022 | 2 | 13 | 27 | <1 | 4 | 2 |
| Phase 3 Paving-2022 | 1 | 12 | 21 | <1 | 2 | 1 |
| Overlapping Phases | | | | | | |
| 2020 | | | | | | |
| Phase 1A Building Construction + Phase 1B Grading Modernization | 3 | 22 | 34 | <1 | 8 | 3 |
| Phase 1A Building Construction + Phase 1B Building Construction | 4 | 30 | 45 | <1 | 9 | 3 |
| Phase 1A Building Construction + Phase 1B Building Construction +Phase 2 Demo | 7 | 54 | 76 | <1 | 15 | 5 |
| Phase 1A Building Construction + Phase 1B Building Construction +Phase 2 Grading/Modernization | 6 | 38 | 65 | <1 | 14 | 5 |
| Phase 1A Building Construction + Phase 1B Paving + Phase 2 Grading/Modernization | 6 | 35 | 72 | <1 | 14 | 5 |
| Phase 1A Building Construction + Phase 2 Grading/Modernization | 4 | 22 | 42 | <1 | 10 | 4 |
| Phase 1A Building Construction + Phase 2 Building Construction | 3 | 29 | 37 | <1 | 6 | 2 |
| 2021 | | | | | | |
| Phase 1A Building Construction + Phase 2 Building Construction | 3 | 27 | 35 | <1 | 6 | 2 |
| Phase 1A Architectural Coating + Phase 2 Building Construction | 36 | 29 | 48 | <1 | 10 | 3 |
| 2022 | | | | | | |
| Phase 2 Building Construction + Phase 2 Architectural Coating + Phase 3 Demolition | 20 | 29 | 52 | <1 | 10 | 3 |
| Phase 2 Architectural Coating + Phase 3 Demolition | 18 | 16 | 39 | <1 | 8 | 3 |
| **Maximum Daily Emissions** | **36** | **54** | **76** | <1 | **15** | **5** |
| SCAQMD Regional Significance Thresholds | 75 | 100 | 550 | 150 | 150 | 55 |
| Over/(Under) | (39) | (46) | (474) | (150) | (135) | (50) |
| Exceeds Threshold? | No | No | No | No | No | No |

| **Localized Emissions** | **NOX** | **CO** | **Total PM10** | **Total PM2.5** |
|---|---|---|---|---|
| **Source** | | | **lb/day** | |
| Phase 1A Demolition -2020 | 13 | 16 | 2 | 1 |
| Phase 1A-Grading/Modernization-2020 | 7 | 8 | 2 | 1 |
| Phase 1 A Building Construction-2020 | 8 | 9 | <1 | <1 |
| Phase 1 A Building Construction-2021 | 8 | 9 | <1 | <1 |
| Phase 1A-Architectural Coatings-2021 | 1 | 2 | <1 | <1 |
| Phase 1B-Grading/Modernization-2020 | 7 | 8 | 2 | 1 |
| Phase 1B Building Construction-2020 | 8 | 9 | <1 | <1 |
| Phase 1 B Paving | 11 | 17 | 1 | 1 |
| Phase 2 Demolition-2020 | 12 | 16 | 2 | 1 |
| Phase 2 Grading/Modernization | 7 | 8 | 2 | 1 |
| Phase 2 Building Construction-2020 | 8 | 9 | <1 | <1 |
| Phase 2 Building Construction-2021 | 8 | 9 | <1 | <1 |
| Phase 2 Building Construction-2022 | 8 | 9 | <1 | <1 |
| Phase 2 Architectural Coating-2022 | 1 | 2 | <1 | <1 |
| Phase 3 Demolition-2022 | 12 | 16 | 1 | 1 |
| Phase 3 Paving-2022 | 11 | 17 | 1 | 1 |
| **Overlapping Phases** | | | | |
| **2020** | | | | |
| Phase 1A Building Construction + Phase 1B Grading Modernization | 15 | 16 | 3 | 2 |
| Phase 1A Building Construction + Phase 1B Building Construction | 16 | 17 | 1 | 1 |
| Phase 1A Building Construction + Phase 1B Building Construction +Phase 2 Demo | 28 | 33 | 3 | 2 |
| Phase 1A Building Construction + Phase 1B Building Construction +Phase 2 Grading/Modernization | 23 | 25 | 3 | 2 |
| Phase 1A Building Construction + Phase 1B Paving + Phase 2 Grading/Modernization | 26 | 34 | 3 | 2 |
| Phase 1A Building Construction + Phase 2 Grading/Modernization | 15 | 16 | 3 | 2 |
| Phase 1A Building Construction + Phase 2 Building Construction | 16 | 17 | 1 | 1 |
| **2021** | | | | |
| Phase 1A Building Construction + Phase 2 Building Construction | 16 | 17 | 1 | 1 |
| Phase 1A Architectural Coating + Phase 2 Building Construction | 17 | 19 | 1 | 1 |
| **2022** | | | | |
| Phase 2 Building Construction + Phase 2 Architectural Coating + Phase 3 Demolition | 21 | 26 | 1 | 1 |
| Phase 2 Architectural Coating + Phase 3 Demolition | 13 | 18 | 1 | 1 |
| **Maximum Daily Emissions** | **28** | **34** | **3** | **2** |
| SCAQMD Localized Thresholds | 57 | 585 | 4 | 3 |
| Over/(Under) | (29) | (551) | (1) | (1) |
| Exceeds Threshold? | No | No | No | No |

# Project Summary

**San Pedro High School Comprehensive Modernization Project**
**Project Summary**

| **DEMO** | | **52,754 sf** |
|---|---|---|
| Bldg 4 | Ind. Arts | 18,432 |
| Bldg 9 | Shop | 15,806 |
| Bldg 10 | Lunch Shelter | 1,850 |
| Bldg 11 | B10-B11 | 1,789 |
| Bldg 12 | B12-B13 | 1,789 |
| Bldg 13 | Food Service | 444 |
| Bldg 14 | B15-B16 | 1,858 |
| Bldg 15 | B17-B18 | 1,859 |
| Bldg 16 | B1-B2 | 1,692 |
| Bldg 17 | B3-B6 | 3,479 |
| Bldg 18 | B7-B8 | 1,836 |
| Bldg 19 | B9 | 960 |
| Bldg 38 | Bldg 165 | 960 |

| **MOD** | | **115,819 sf** |
|---|---|---|
| Bldg 1 | Admin | 45,964 |
| Bldg 2 | PE Bldg | 23,094 |
| Bldg 3 | CR Bldg #1 | 28,151 |
| Bldg 6 | Home Ec | 18,610 |

| **EXIST.** | | **123,625 sf** |
|---|---|---|
| Bldg 1 | Admin (bsmt) | 2,065 |
| Bldg 5 | Auditorium | 19,432 |
| Bldg 7 | Girl's Gym | 5,976 |
| Bldg 8 | CR Bldg #2 | 46,218 |
| Bldg 27 | Sanit. Bldg #2 | 358 |
| Bldg 36 | West Bleachers | 18,542 |
| Bldg 37 | East Bleachers | 9,268 |
| Bldg 39 | Flam. Storage | 64 |
| Bldg 40 | PE Storage | 340 |
| Bldg 42 | New Gym | 20,341 |
| Bldg 51 | Snack Shack | 261 |
| Bldg 52 | Sanit. Bldg #1 | 360 |
| Bldg XX | Bleachers Elec Rm | 224 |
| Bldg XX | PE Bldg Food Kiosk | 176 |

| | | |
|---|---|---|
| | Current Total Campus Structures: | **292,198 sf** |

| **NEW CONSTRUCTION** | |
|---|---|
| **Preferred Scheme** | **62,102** |
| Bldg B - Woodshop+Band Bldg | 13,810 |
| Bldg A - Admin+ Food Service+Classroom | 44,292 |
| Central Plant | 4,000 |

| **INTERIM STRUCTURES** | |
|---|---|
| Total Portables | 45,024 |

| **OTHER** | |
|---|---|
| Lunch Shelter | 4200 |
| Parking Lot Paving | 39,800 |

# Schedule and Equipment

**San Pedro High School Comprehensive Modernization Project**
**Schedule and Equipment Assumptions**

| Schedule Provided | Start Date | End Date | Work Days |
|---|---|---|---|
| Phase 1A | 6/1/2019 | 11/30/2020 | 391 |
| Phase 1B | 6/1/2020 | 8/31/2020 | 66 |
| Phase 2 | 12/1/2020 | 11/30/2022 | 522 |
| Phase 3 | 12/1/2022 | 5/31/2023 | 130 |

Source: project plans

**Construction Model Assumptions**

| PHASE [1] | CalEEMod Phase Type | Start Date | End Date | Total Days | Work Days [2] | # of Workers | # of Worker Trips per day |
|---|---|---|---|---|---|---|---|
| **PHASE 1A** | | | | | | | |
| Demo | Demolition | 1/1/2020 | 1/31/2020 | 30 | 23 | 50 | 100 |
| Grading/Modernization | Grading | 2/1/2020 | 4/5/2020 | 64 | 45 | 50 | 100 |
| Building Construction | Building Construction | 4/6/2020 | 7/2/2021 | 452 | 325 | 150 | 300 |
| Architectural Coating | Architectural Coating | 7/2/2021 | 7/31/2021 | 29 | 21 | 150 | 300 |
| **PHASE 1B** | | | | | | 50 | 100 |
| Grading/Modernization | Grading | 4/6/2020 | 6/5/2020 | 60 | 45 | 150 | 300 |
| Building Construction | Building Construction | 6/6/2020 | 7/31/2020 | 55 | 40 | 150 | 300 |
| Pave SW Parking Lot | Paving | 8/1/2020 | 9/20/2020 | 50 | 35 | 150 | 300 |
| **PHASE 2** | | | | | | | |
| Demo | Demolition | 6/15/2020 | 7/25/2020 | 40 | 30 | 150 | 300 |
| Grading/Modernization | Grading | 7/26/2020 | 9/25/2020 | 61 | 45 | 150 | 300 |
| Building Construction | Building Construction | 9/26/2020 | 6/30/2022 | 642 | 459 | 50 | 100 |
| Architectural Coating | Paving | 6/15/2022 | 7/19/2022 | 34 | 25 | 150 | 300 |
| **PHASE 3** | | | | | | | |
| Demolition | Demolition | 6/15/2022 | 11/30/2022 | 168 | 121 | 150 | 300 |
| Pave Northern Parking Lot | Paving | 12/1/2022 | 12/31/2022 | 30 | 22 | 50 | 100 |

Notes:

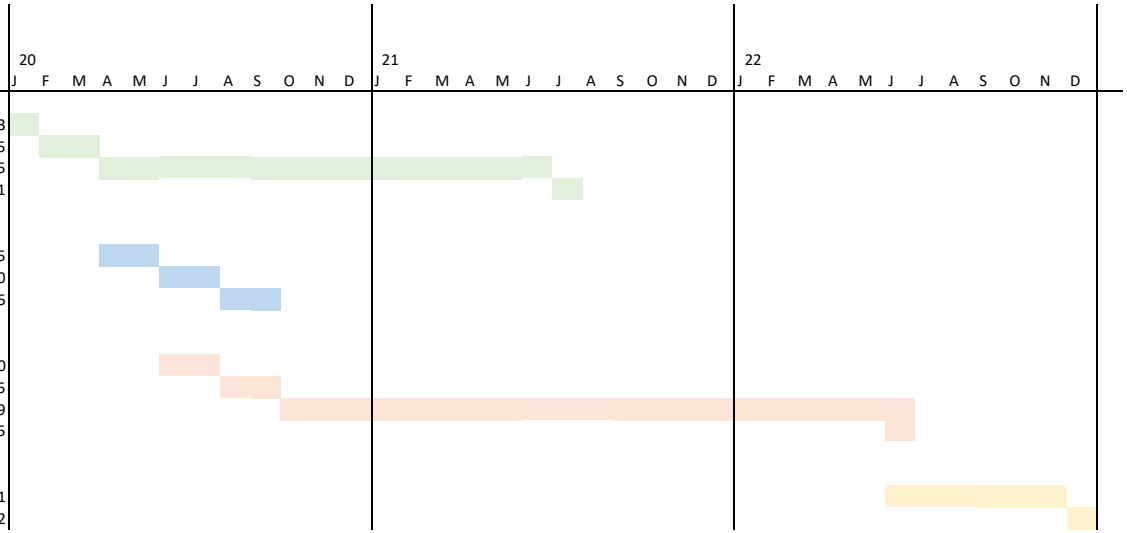
1 Phase Length - project plans
2 5 work days per week (Monday - Friday)

Construction Equipment

| Phase | Equipment Type | # of Equipment | Hours/day | HP | Load Factor |
|---|---|---|---|---|---|
| Phase 1A | | | | | |
| Phase 1 Demo | Concrete/Industrial Saws | 1 | 6 | 81 | 0.73 |
| | Crushing/Proc. Equipment | 1 | 6 | 85 | 0.73 |
| | Excavators | 1 | 6 | 158 | 0.38 |
| | Other Construction Equipment | 1 | 6 | 172 | 0.42 |
| | Rubber Tired Dozers | 1 | 6 | 247 | 0.4 |
| Phase 1 Grading/Modernization | Graders | 1 | 6 | 187 | 0.41 |
| | Rubber Tired Dozers | 1 | 6 | 247 | 0.4 |
| | Tractors/Loaders/Backhoes | 1 | 6 | 97 | 0.37 |
| Phase 1 Construction (Interim Housing/Portables) | Cranes | 1 | 4 | 231 | 0.29 |
| | Forklifts | 1 | 6 | 89 | 0.2 |
| | Generator Sets | 1 | 6 | 84 | 0.74 |
| | Tractors/Loaders/Backhoes | 1 | 6 | 97 | 0.37 |
| | Welders | 1 | 6 | 46 | 0.45 |
| Phase 1 Architectural Coating | Air Compressors | 1 | 6 | 78 | 0.48 |
| Phase 1B | | | | | |
| Phase 1B Grading/Modernization | Graders | 1 | 6 | 187 | 0.41 |
| | Rubber Tired Dozers | 1 | 6 | 247 | 0.4 |
| | Tractors/Loaders/Backhoes | 1 | 6 | 97 | 0.37 |
| Phase 1B Construction | Cranes | 1 | 4 | 231 | 0.29 |
| | Forklifts | 1 | 6 | 89 | 0.2 |
| | Generator Sets | 1 | 6 | 84 | 0.74 |
| | Tractors/Loaders/Backhoes | 1 | 6 | 97 | 0.37 |
| | Welders | 1 | 6 | 46 | 0.45 |
| Phase 1B Paving | Pavers | 2 | 8 | 130 | 0.42 |
| | Paving Equipment | 2 | 8 | 80 | 0.38 |
| | Rollers | 2 | 8 | 132 | 0.36 |
| Phase 2 | | | | | |
| Phase 2 Demolition | Concrete/Industrial Saws | 1 | 6 | 81 | 0.73 |
| | Crushing/Proc. Equipment | 1 | 6 | 85 | 0.73 |
| | Excavators | 1 | 6 | 158 | 0.38 |
| | Other Construction Equipment | 1 | 6 | 172 | 0.42 |
| | Rubber Tired Dozers | 1 | 6 | 247 | 0.4 |
| Phase 2 Grading/Modernization | Graders | 1 | 6 | 187 | 0.41 |
| | Rubber Tired Dozers | 1 | 6 | 247 | 0.4 |
| | Tractors/Loaders/Backhoes | 1 | 6 | 97 | 0.37 |
| Phase 2 Construction (Interim Housing/Portables & New cons | Cranes | 1 | 4 | 231 | 0.29 |
| | Forklifts | 1 | 6 | 89 | 0.2 |
| | Generator Sets | 1 | 6 | 84 | 0.74 |
| | Tractors/Loaders/Backhoes | 1 | 6 | 97 | 0.37 |
| | Welders | 1 | 6 | 46 | 0.45 |
| Phase 2 Architectural Coating | Air Compressors | 1 | 6 | 78 | 0.48 |
| Phase 3 | | | | | |
| Phase 3 Demolition | Concrete/Industrial Saws | 1 | 6 | 81 | 0.73 |
| | Crushing/Proc. Equipment | 1 | 6 | 85 | 0.73 |
| | Excavators | 1 | 6 | 158 | 0.38 |
| | Other Construction Equipment | 1 | 6 | 172 | 0.42 |
| | Rubber Tired Dozers | 1 | 6 | 247 | 0.4 |
| Phase 3 Paving | Pavers | 2 | 8 | 130 | 0.42 |
| | Paving Equipment | 2 | 8 | 80 | 0.38 |
| | Rollers | 2 | 8 | 132 | 0.36 |

**San Pedro High School Comprehensive Modernization Project**
**Project Schedule**

| | Start Date | End Date | Work Days |
|---|---|---|---|
| **PHASE 1** | | | |
| Demo | 1/1/2020 | 1/31/2020 | 23 |
| Grading/Modernization | 2/1/2020 | 4/5/2020 | 45 |
| Building Construction | 4/6/2020 | 7/2/2021 | 325 |
| Architectural Coating | 7/2/2021 | 7/31/2021 | 21 |
| **PHASE 1B** | | | |
| Grading/Modernization | 4/6/2020 | 6/5/2020 | 45 |
| Building Construction | 6/6/2020 | 7/31/2020 | 40 |
| Paving | 8/1/2020 | 9/20/2020 | 35 |
| **PHASE 2** | | | |
| Demo | 6/15/2020 | 7/25/2020 | 30 |
| Grading/Modernization | 7/26/2020 | 9/25/2020 | 45 |
| Building Construction | 9/26/2020 | 6/30/2022 | 459 |
| Architectural Coating | 6/15/2022 | 7/19/2022 | 25 |
| **PHASE 3** | | | |
| Demolition | 6/15/2022 | 11/30/2022 | 121 |
| Paving | 12/1/2022 | 12/31/2022 | 22 |



# Demolition Quantities

**San Pedro High School Comprehensive Modernization Project**
**Demolition Quantities**

**Phase 1**

| **Structures** | | | | **Sqft** |
|---|---|---|---|---|
| Bldg 2 | PHYSICAL EDUCATION | Permanent | Permanent | 23,094 |
| Bldg 4 | INDUSTRIAL ARTS BUII | Permanent | Permanent | 18,432 |
| Bldg 9 | SHOP BUILDING | Permanent | Permanent | 15,806 |
| | Lunch Shelter | | | 1,850 |
| Bldg 13 | FOOD SERVICE UNIT | Permanent | Permanent | 444 |
| Bldg 19 | | Portable | Classroom | 960 |
| Bldg 38 | | Portable | Classroom | 960 |
| | | | **Total** | **61,546** |

**Phase 2**

| | | | | |
|---|---|---|---|---|
| Bldg 1 | ADMINISTRATION BUI | Permanent | Permanent | 45,964 |
| Bldg 3 | CLASSROOM BUILDIN( | Permanent | Permanent | 28,151 |
| Bldg 6 | HOME ECONOMICS BL | Permanent | Permanent | 18,610 |
| Bldg 11 | | Portable | Bungalow | 1,789 |
| Bldg 12 | | Portable | Bungalow | 1,789 |
| Bldg 14 | | Portable | Bungalow | 1,858 |
| Bldg 15 | | Portable | Bungalow | 1,859 |
| Bldg 16 | | Portable | Bungalow | 1,692 |
| Bldg 17 | | | | 3,479 |
| Bldg 18 | | Portable | Bungalow | 1,836 |
| | | | **Total** | **107,027** |

**Phase 3**

| | | | | |
|---|---|---|---|---|
| 45 portables | | | | 44,160 |
| | | | **Total** | **44,160** |

| **Phase** | **Building Sqft** | **Building Volume ($ft^3$)** | **Building Debris Volume (CY)[1]** | **Building Waste Density (tons/CY)[2]** | **tons** |
|---|---|---|---|---|---|
| 1 | 61,546 | 615,461 | 5,699 | 0.5 | 2,849 |
| 2 | 107,027 | 1,070,269 | 9,910 | 0.5 | 4,955 |
| 3 | 44,160 | 441,600 | 4,089 | 0.5 | 2,044 |

Notes:

[1] Per CALEEMOD user's guide, 1 ft3 building volume = 0.25 ft3 waste volume.

[2] Building waste density is assumed to be 0.5 ton/CY per CALEEMOD User's Guide.

| **Phase** | **Building Debris Volume (CY)[1]** | **Mean Truck Capacity[3] (CY)** | **Total Truck Trips (Round Trip)** | **Total Truck Trips (One-Way)[4]** | **Demo Duration** | **Trips per day** |
|---|---|---|---|---|---|---|
| 1 (soil removal)[5] | | | - | 250 | 5 | 50 |
| 1 | 5,699 | 16 | 356 | 712 | 50 | 14 |
| 2 | 9,910 | 16 | 619 | 1,239 | 94 | 13 |
| 3 | 4,089 | 16 | 256 | 511 | 88 | 6 |

[3] Per CalEEMod, Hauling trips based on 16 CY per load

[4] 250 Truck trips based on Removal Action Plan prepared by Alta Environmental

[5] calculated outside of CalEEMod

# Concrete Estimates

**San Pedro High School Comprehensive Modernization Project**
**Concrete Estimates**

| Phase | New Construction (sf) | Slab Thickness (ft) | $ft^3$ | CY | Concrete Truck Capacity[1] | Total Trucks | Phase Durations | Total One-way Trips per Day |
|---|---|---|---|---|---|---|---|---|
| Phase 1B Building Construction | 58,102 | 1 | 58102 | 2152 | 10 | 215 | 40 | 11 |
| Phase 2 Building Construction | 8,200 | 1 | 8200 | 304 | 10 | 30 | 459 | 1 |

https://www.reference.com/home-garden/many-cubic-yards-concrete-truck-hold-f16ec3f128dc18d2

# Soil Removal Haul Truck Emissions

**San Pedro High School Comprehensive Modernization Project**
**Soil Removal Haul Truck Emissions**

Soil Removal Miles

**Vehicle Travel Distances and One-Way Trips**

| Import/Export Location | Vehicle Class | One-Way Trip Distance (miles) [a] | | Number of One-Way Trips [b] | |
|---|---|---|---|---|---|
| **Activity** | | | | | |
| **Disposal (Export)** | | **SCAB** | **SJVAB** | **Daily Trips** | **Annual Trips** |
| Clean Harbors Buttonwillow (CA) | Haul Truck (T7, Single Construction) | 93 | 70 | 25 | 125 |
| **Clean Fill (Import)** | Haul Truck (T7, Single Construction) | 30 | | 25 | 125 |

*a. Trip lengths measured using Google Earth*
*b. Truck trips estimated from Removal Action Workplan*

**Vehicle Emissions Factors**

| Model Year | Vehicle Class | Criteria Pollutant Emission Factors (pounds/mile) [a] | | | | | | GHG Emission Factors (pounds/mile) [a] |
|---|---|---|---|---|---|---|---|---|
| **EMFAC2014 (Analysis Year 2020)** | | **ROG** | **NOX** | **CO** | **SO2** | **PM10** | **PM2.5** | |
| Fleet Average-SCAB | Haul Truck (T7 Single Construction) | 0.00022212 | 0.00991502 | 0.00092521 | 3.46528E-05 | 0.00025772 | 0.00011859 | 3.632188178 |
| Fleet Average-SJVAB | Haul Truck (T7 Single Construction) | 0.000245367 | 0.010349562 | 0.00101353 | 3.52775E-05 | 0.00025767 | 0.00011854 | 3.697666255 |

South Coast Air Basin

**Vehicle Emissions-(Heavy-Duty Trucks(T7, Single Construction))**

| Import/Export Location | Vehicle Class | Criteria Pollutant Emissions (pounds/day) | | | | | | GHG Emissions (MT CO2/yr) |
|---|---|---|---|---|---|---|---|---|
| Buttonwillow, CA | | **ROG** | **NOX** | **CO** | **SO2** | **PM10** | **PM2.5** | |
| **Activity** | | | | | | | | |
| Disposal/Clean Fill (Export/Import) | Fleet Average | **0.516** | **23.052** | **2.151** | **0.081** | **0.599** | **0.276** | **19.153** |
| **Clean Fill (Import)** | Fleet Average | **0.167** | **7.436** | **0.694** | **0.026** | **0.193** | **0.089** | **6.178** |
| | **Total** | **0.683** | **30.489** | **2.845** | **0.107** | **0.792** | **0.365** | **25.331** |

San Joaquin Valley Air Basin

**Vehicle Emissions-(Heavy-Duty Trucks(T7, Single Construction))**

| Import/Export Location | Vehicle Class | Criteria Pollutant Emissions (pounds/day) | | | | | | GHG Emissions (MT CO2/yr) |
|---|---|---|---|---|---|---|---|---|
| Buttonwillow, CA | | **ROG** | **NOX** | **CO** | **SO2** | **PM10** | **PM2.5** | |
| **Activity** | | | | | | | | |
| Disposal/Clean Fill (Export/Import) | Fleet Average | **0.429** | **18.112** | **1.774** | **0.062** | **0.451** | **0.207** | **14.676** |
| | **Total** | **0.429** | **18.112** | **1.774** | **0.062** | **0.451** | **0.207** | **14.676** |

# Vendor Truck Emissions

**San Pedro High School Comprehensive Modernization Project**
**Construction AQ Idling Emissions**

## Activity

| Phase (Vendor Trips) | Start Date | End Date | # of Trucks/day [1,3] | Idling (hour/day) [2] |
|---|---|---|---|---|
| Phase 1A (Soil Removal) | 1/1/2020 | 1/6/2020 | 25 | 6.3 |
| Phase 1A Demo | 1/1/2020 | 1/31/2020 | 7 | 1.8 |
| Phase 1A Building Construction | 4/6/2020 | 7/2/2021 | 33 | 8.1 |
| Phase 1B Building Construction | 6/6/2020 | 7/31/2020 | 38 | 9.5 |
| Phase 2 Demo | 6/15/2020 | 7/25/2020 | 7 | 1.6 |
| Phase 2 Building Construction | 9/26/2020 | 6/30/2022 | 33 | 8.1 |
| Phase 3 Demo | 6/15/2022 | 11/30/2022 | 3 | 0.7 |

*Notes:*

*1. Assume only trips going to site and idling onsite.*

*2. Assume 15-minute idling onsite for each concrete truck. http://www.lafarge-na.com/wps/portal/na/en/3_A_11_1-Calculating_Truck_Requirements.*

*3. For Building Construction, CalEEMod assumed 65 vendor trips per day*

**Idling Emission Factors (lb/vehicle/hr)**

| | ROG | NOx | CO | PM10 | PM2.5 | SOX | CO2 |
|---|---|---|---|---|---|---|---|
| 2018 | 6.77E-03 | 1.61E-01 | 2.67E-02 | 6.00E-04 | 5.74E-04 | 2.04E-04 | 2.14E+01 |
| 2019 | 6.37E-03 | 1.55E-01 | 2.52E-02 | 5.35E-04 | 5.12E-04 | 2.07E-04 | 2.17E+01 |
| 2020 | 3.73E-03 | 1.34E-01 | 1.48E-02 | 7.14E-05 | 6.83E-05 | 2.35E-04 | 2.46E+01 |
| **Average** | **5.62E-03** | **1.50E-01** | **2.22E-02** | **4.02E-04** | **3.85E-04** | **2.16E-04** | **2.26E+01** |

**Maxmum Daily Idling Emissions (lbs/day)**

| Summary[1] | | ROG | NOx | CO | PM10 | PM2.5 | SOX | CO2 |
|---|---|---|---|---|---|---|---|---|
| Phase 1A (Soil Removal) | | 2.33E-02 | 8.36E-01 | 9.26E-02 | 4.46E-04 | 4.27E-04 | 1.47E-03 | 1.54E+02 |
| Phase 1A Demo | | 6.65E-03 | 2.38E-01 | 2.64E-02 | 1.27E-04 | 1.22E-04 | 4.19E-04 | 4.39E+01 |
| Phase 1A Building Construction | | 3.03E-02 | 1.09E+00 | 1.20E-01 | 5.80E-04 | 5.55E-04 | 1.91E-03 | 2.00E+02 |
| Phase 1B Building Construction | | 3.55E-02 | 1.27E+00 | 1.41E-01 | 6.78E-04 | 6.49E-04 | 2.23E-03 | 2.34E+02 |
| Phase 2 Demo | | 6.15E-03 | 2.20E-01 | 2.44E-02 | 1.18E-04 | 1.13E-04 | 3.87E-04 | 4.06E+01 |
| Phase 2 Building Construction | | 3.03E-02 | 1.09E+00 | 1.20E-01 | 5.80E-04 | 5.55E-04 | 1.91E-03 | 2.00E+02 |
| Phase 3 Demo | | 2.71E-03 | 9.71E-02 | 1.08E-02 | 5.18E-05 | 4.96E-05 | 1.71E-04 | 1.79E+01 |

*Notes:*

*1. LST polluants are CO, Nox, PM10, and PM2.5*

**Maximum Annual Idling Emissions**

| Phase | CO2 (lb/day) | Duration(days) | Total $CO_2$ (MT/yr) | Total $CO_{2e}$ (MT/yr) |
|---|---|---|---|---|
| Phase 1A (Soil Removal) | 154.0 | 5 | 0.35 | 0.35 |
| Phase 1A Demo | 43.9 | 27 | 0.54 | 0.54 |
| Phase 1A Building Construction | 200.2 | 389 | 35.32 | 35.67 |
| Phase 1B Building Construction | 234.0 | 48 | 5.10 | 5.15 |
| Phase 2 Demo | 40.6 | 36 | 0.66 | 0.67 |
| Phase 2 Building Construction | 200.2 | 551 | 50.03 | 50.52 |
| Phase 3 Demo | 17.9 | 145 | 1.18 | 1.19 |
| | | | Total | 94 |

*Notes:*

| *GHG Emission Factors from CARB Inventory* [1] | *GWP* [2] |
|---|---|
| *0.09 CH4 g/gal* | *25* |
| *10206 CO2 g/gal* | *1* |
| *0.332 N2O g/gal* | *298* |
| *2.25 CO2e g/gal from CH4* | |
| *10206 CO2e g/gal from CO2* | |
| *98.936 CO2e g/gal from N2O* | |
| *10307.186 Total CO2e lb/gal* | |
| *1.01 Total CO2e / CO2* | |

*1. GHG emission factors are obtained from the CARB GHG emissions inventory, with the following query: 1A3biii - Fuel Combustion Activities - Transport - Road Transportation - Heavy-duty Trucks and Buses, Sector Transportation : On Road : Heavy-duty Vehicles : Heavy-duty Trucks*

*https://www.arb.ca.gov/cc/inventory/doc/docs1/1a3biii_onroad_heavy-dutyvehicles_heavy-dutytrucks_fuelcombustion_distillate_ch4_2015.htm*

*2. GWP is based on IPCC Fourth Assessment Report. https://www.ipcc.ch/publications_and_data/ar4/wg1/en/ch2s2-10-2.html*

# Architectural Coating

**San Pedro High School Comprehensive Modernization Project**
**Architectural Coating**

| CalEEMod assumes the total surface for architectural coating equals: | | |
|---|---|---|
| Nonresidential Coating Area | 2 | times the square footage |
| | 75% | interior |
| | 25% | exterior |
| Parking Lot Coating Area | 6% | of the square footage |
| | 0% | exterior for surface lot |

Source: SCAQMD, CEQA Air Quality Handbook, (1993) A9-124.

| Non-Residential Land Uses | | | |
|---|---|---|---|
| **Land Use** | **Area (sf)** | **Interior (sf)** | **Exterior (sf)** |
| Phase 1 | 70,486 | 105,729 | 35,243 |
| Phase 2 | 40,840 | 61,260 | 20,420 |
| Phase 1 Paving | 31,800 | 1,844 | 0 |
| Phase 2 Paving | 8,000 | 464 | - |
| **Project Total** | **151,126** | **169,297** | **55,663** |

# CalEEMod Summer Output

# LAUSD San Pedro High School Modernization

**South Coast AQMD Air District, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| High School | 2,700.00 | Student | 22.90 | 358,184.64 | 0 |
| Parking Lot | 39.80 | 1000sqft | 0.91 | 39,800.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 31 |
| **Climate Zone** | 11 | | | **Operational Year** | 2020 |
| **Utility Company** | Los Angeles Department of Water & Power | | | | |
| **CO2 Intensity (lb/MWhr)** | 1227.89 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project Specific Information

Construction Phase - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Demolition -

Off-road Equipment -

Grading -

Trips and VMT - Project Specific Information

Construction Off-road Equipment Mitigation - Project Specific Information

Architectural Coating - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 179,092.00 | 35,243.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 179,092.00 | 20,420.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 537,277.00 | 105,729.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 537,277.00 | 61,260.00 |
| tblArchitecturalCoating | ConstArea_Parking | 2,388.00 | 1,844.00 |
| tblArchitecturalCoating | ConstArea_Parking | 2,388.00 | 464.00 |
| tblArchitecturalCoating | PhaseName | Phase 1 A Architectural Coating | Phase 1A Architectural Coating |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |

| | | | |
|---|---|---|---|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstructionPhase | NumDays | 20.00 | 23.00 |
| tblConstructionPhase | NumDays | 35.00 | 45.00 |
| tblConstructionPhase | NumDays | 370.00 | 325.00 |
| tblConstructionPhase | NumDays | 35.00 | 45.00 |
| tblConstructionPhase | NumDays | 370.00 | 40.00 |
| tblConstructionPhase | NumDays | 20.00 | 30.00 |
| tblConstructionPhase | NumDays | 35.00 | 45.00 |
| tblConstructionPhase | NumDays | 20.00 | 35.00 |
| tblConstructionPhase | NumDays | 370.00 | 459.00 |
| tblConstructionPhase | NumDays | 20.00 | 21.00 |
| tblConstructionPhase | NumDays | 20.00 | 25.00 |
| tblConstructionPhase | NumDays | 20.00 | 121.00 |

| | | | |
|---|---|---|---|
| tblConstructionPhase | NumDays | 20.00 | 22.00 |
| tblDemolition | PhaseName | Phase 1 A Demolition | Phase 1A Demolition |
| tblGrading | PhaseName | Phase 1 A Grading/Modernization | Phase 1A Grading/Modernization |
| tblGrading | PhaseName | Phase 1 B Grading/Modernization | Phase 1B Grading/Modernization |
| tblLandUse | LotAcreage | 8.22 | 22.90 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |
| tblOffRoadEquipment | PhaseName | Phase 1 A Architectural Coating | Phase 1A Architectural Coating |
| tblOffRoadEquipment | PhaseName | Phase 1 A Demolition | Phase 1A Demolition |
| tblOffRoadEquipment | PhaseName | Phase 1 A Building Construction | Phase 1A Building Construction |
| tblOffRoadEquipment | PhaseName | Phase 1 B Building Construction | Phase 1B Building Construction |
| tblOffRoadEquipment | PhaseName | Phase 1 A Demolition | Phase 1A Demolition |

| | | | |
|---|---|---|---|
| tblOffRoadEquipment | PhaseName | Phase 1 A Building Construction | Phase 1A Building Construction |
| tblOffRoadEquipment | PhaseName | Phase 1 B Building Construction | Phase 1B Building Construction |
| tblOffRoadEquipment | PhaseName | Phase 1 A Building Construction | Phase 1A Building Construction |
| tblOffRoadEquipment | PhaseName | Phase 1 B Building Construction | Phase 1B Building Construction |
| tblOffRoadEquipment | PhaseName | Phase 1 A Grading/Modernization | Phase 1A Grading/Modernization |
| tblOffRoadEquipment | PhaseName | Phase 1 B Grading/Modernization | Phase 1B Grading/Modernization |
| tblOffRoadEquipment | PhaseName | Phase 1 B Paving | Phase 1B Paving |
| tblOffRoadEquipment | PhaseName | Phase 1 B Paving | Phase 1B Paving |
| tblOffRoadEquipment | PhaseName | Phase 1 B Paving | Phase 1B Paving |
| tblOffRoadEquipment | PhaseName | Phase 1 A Demolition | Phase 1A Demolition |
| tblOffRoadEquipment | PhaseName | Phase 1 A Grading/Modernization | Phase 1A Grading/Modernization |
| tblOffRoadEquipment | PhaseName | Phase 1 B Grading/Modernization | Phase 1B Grading/Modernization |
| tblOffRoadEquipment | PhaseName | Phase 1 A Building Construction | Phase 1A Building Construction |
| tblOffRoadEquipment | PhaseName | Phase 1 B Building Construction | Phase 1B Building Construction |
| tblOffRoadEquipment | PhaseName | Phase 1 A Grading/Modernization | Phase 1A Grading/Modernization |
| tblOffRoadEquipment | PhaseName | Phase 1 B Grading/Modernization | Phase 1B Grading/Modernization |
| tblOffRoadEquipment | PhaseName | Phase 1 A Building Construction | Phase 1A Building Construction |
| tblOffRoadEquipment | PhaseName | Phase 1 B Building Construction | Phase 1B Building Construction |
| tblOffRoadEquipment | PhaseName | | Phase 1A Demolition |
| tblOffRoadEquipment | PhaseName | | Phase 3 Demolition |
| tblOffRoadEquipment | PhaseName | | Phase 2 Demolition |
| tblOffRoadEquipment | PhaseName | | Phase 1A Demolition |
| tblOffRoadEquipment | PhaseName | | Phase 3 Demolition |
| tblOffRoadEquipment | PhaseName | | Phase 2 Demolition |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 4.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 4.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 4.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |

| | | | |
|---|---|---|---|
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOnRoadDust | PhaseName | Phase 1 A Demolition | Phase 1A Demolition |
| tblOnRoadDust | PhaseName | Phase 1 A Architectural Coating | Phase 1A Architectural Coating |
| tblOnRoadDust | PhaseName | Phase 1 A Grading/Modernization | Phase 1A Grading/Modernization |
| tblOnRoadDust | PhaseName | Phase 1 B Grading/Modernization | Phase 1B Grading/Modernization |
| tblOnRoadDust | PhaseName | Phase 1 A Building Construction | Phase 1A Building Construction |

| | | | |
|---|---|---|---|
| tblOnRoadDust | PhaseName | Phase 1 B Building Construction | Phase 1B Building Construction |
| tblOnRoadDust | PhaseName | Phase 1 B Paving | Phase 1B Paving |
| tblTripsAndVMT | HaulingTripNumber | 282.00 | 712.00 |
| tblTripsAndVMT | HaulingTripNumber | 490.00 | 1,239.00 |
| tblTripsAndVMT | HaulingTripNumber | 202.00 | 511.00 |
| tblTripsAndVMT | PhaseName | Phase 1 A Demolition | Phase 1A Demolition |
| tblTripsAndVMT | PhaseName | Phase 1 A Architectural Coating | Phase 1A Architectural Coating |
| tblTripsAndVMT | PhaseName | Phase 1 A Grading/Modernization | Phase 1A Grading/Modernization |
| tblTripsAndVMT | PhaseName | Phase 1 B Grading/Modernization | Phase 1B Grading/Modernization |
| tblTripsAndVMT | PhaseName | Phase 1 A Building Construction | Phase 1A Building Construction |
| tblTripsAndVMT | PhaseName | Phase 1 B Building Construction | Phase 1B Building Construction |
| tblTripsAndVMT | PhaseName | Phase 1 B Paving | Phase 1B Paving |
| tblTripsAndVMT | VendorTripNumber | 65.00 | 76.00 |
| tblTripsAndVMT | VendorTripNumber | 65.00 | 66.00 |
| tblTripsAndVMT | WorkerTripNumber | 13.00 | 100.00 |
| tblTripsAndVMT | WorkerTripNumber | 8.00 | 100.00 |
| tblTripsAndVMT | WorkerTripNumber | 167.00 | 300.00 |
| tblTripsAndVMT | WorkerTripNumber | 8.00 | 100.00 |
| tblTripsAndVMT | WorkerTripNumber | 167.00 | 300.00 |
| tblTripsAndVMT | WorkerTripNumber | 13.00 | 300.00 |
| tblTripsAndVMT | WorkerTripNumber | 8.00 | 300.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 300.00 |
| tblTripsAndVMT | WorkerTripNumber | 167.00 | 100.00 |
| tblTripsAndVMT | WorkerTripNumber | 33.00 | 300.00 |
| tblTripsAndVMT | WorkerTripNumber | 33.00 | 300.00 |
| tblTripsAndVMT | WorkerTripNumber | 13.00 | 300.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 100.00 |

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

**Mitigated Construction**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2020 | 6.4373 | 53.9058 | 75.6266 | 0.2230 | 13.0624 | 1.6381 | 14.7005 | 3.9127 | 1.6274 | 5.1914 | 0.0000 | 22,497.1319 | 22,497.1319 | 1.8008 | 0.0000 | 22,542.1502 |
| 2021 | 35.8639 | 29.1697 | 48.1581 | 0.1406 | 8.6628 | 0.9814 | 9.6442 | 2.3164 | 0.9758 | 3.2922 | 0.0000 | 14,080.1187 | 14,080.1187 | 0.9304 | 0.0000 | 14,103.3781 |
| 2022 | 19.2902 | 28.3546 | 52.3412 | 0.1359 | 8.4615 | 1.1885 | 9.6501 | 2.2382 | 1.1835 | 3.4218 | 0.0000 | 13,510.2840 | 13,510.2840 | 1.0983 | 0.0000 | 13,537.7409 |
| **Maximum** | **35.8639** | **53.9058** | **75.6266** | **0.2230** | **13.0624** | **1.6381** | **14.7005** | **3.9127** | **1.6274** | **5.1914** | **0.0000** | **22,497.1319** | **22,497.1319** | **1.8008** | **0.0000** | **22,542.1502** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **7.96** | **15.37** | **-4.46** | **0.00** | **9.13** | **16.09** | **8.99** | **15.68** | **12.28** | **14.94** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 3.0 Construction Detail

### Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Phase 1A Demolition | Demolition | 1/1/2020 | 1/31/2020 | 5 | 23 | 11 |
| 2 | Phase 1A Grading/Modernization | Grading | 2/1/2020 | 4/5/2020 | 5 | 45 | 12 |
| 3 | Phase 1A Building Construction | Building Construction | 4/6/2020 | 7/2/2021 | 5 | 325 | 13 |
| 4 | Phase 1A Architectural Coating | Architectural Coating | 7/2/2021 | 7/31/2021 | 5 | 21 | 14 |
| 5 | Phase 1B Grading/Modernization | Grading | 4/6/2020 | 6/5/2020 | 5 | 45 | 15 |
| 6 | Phase 1B Building Construction | Building Construction | 6/6/2020 | 7/31/2020 | 5 | 40 | 16 |
| 7 | Phase 1B Paving | Paving | 8/1/2020 | 9/20/2020 | 5 | 35 | 17 |
| 8 | Phase 2 Demolition | Demolition | 6/15/2020 | 7/25/2020 | 5 | 30 | 18 |
| 9 | Phase 2 Grading/Modernization | Grading | 7/26/2020 | 9/25/2020 | 5 | 45 | 19 |
| 10 | Phase 2 Building Construction | Building Construction | 9/26/2020 | 6/30/2022 | 5 | 459 | 20 |
| 11 | Phase 2 Architectural Coating | Architectural Coating | 6/15/2022 | 7/19/2022 | 5 | 25 | 21 |
| 12 | Phase 3 Demolition | Demolition | 6/15/2022 | 11/30/2022 | 5 | 121 | 22 |
| 13 | Phase 3 Paving | Paving | 12/1/2022 | 12/31/2022 | 5 | 22 | 23 |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0.91**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 105,729; Non-Residential Outdoor: 35,243; Striped Parking Area:**

### OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Phase 1A Demolition | Concrete/Industrial Saws | 1 | 6.00 | 81 | 0.73 |
| Phase 1A Demolition | Crushing/Proc. Equipment | 1 | 6.00 | 85 | 0.78 |
| Phase 1A Demolition | Excavators | 1 | 6.00 | 158 | 0.38 |
| Phase 1A Demolition | Other Construction Equipment | 1 | 6.00 | 172 | 0.42 |
| Phase 1A Demolition | Rubber Tired Dozers | 1 | 6.00 | 247 | 0.40 |

| | | | | | |
|---|---|---|---|---|---|
| Phase 1A Grading/Modernization | Graders | 1 | 6.00 | 187 | 0.41 |
| Phase 1A Grading/Modernization | Rubber Tired Dozers | 1 | 6.00 | 247 | 0.40 |
| Phase 1A Grading/Modernization | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Phase 1A Building Construction | Cranes | 1 | 4.00 | 231 | 0.29 |
| Phase 1A Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Phase 1A Building Construction | Generator Sets | 1 | 6.00 | 84 | 0.74 |
| Phase 1A Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Phase 1A Building Construction | Welders | 1 | 6.00 | 46 | 0.45 |
| Phase 1B Grading/Modernization | Graders | 1 | 6.00 | 187 | 0.41 |
| Phase 1B Grading/Modernization | Rubber Tired Dozers | 1 | 6.00 | 247 | 0.40 |
| Phase 1B Grading/Modernization | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Phase 1B Building Construction | Cranes | 1 | 4.00 | 231 | 0.29 |
| Phase 1B Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Phase 1B Building Construction | Generator Sets | 1 | 6.00 | 84 | 0.74 |
| Phase 1B Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Phase 1B Building Construction | Welders | 1 | 6.00 | 46 | 0.45 |
| Phase 2 Demolition | Concrete/Industrial Saws | 1 | 6.00 | 81 | 0.73 |
| Phase 2 Demolition | Crushing/Proc. Equipment | 1 | 6.00 | 85 | 0.78 |
| Phase 2 Demolition | Excavators | 1 | 6.00 | 158 | 0.38 |
| Phase 2 Demolition | Other Construction Equipment | 1 | 6.00 | 172 | 0.42 |
| Phase 2 Demolition | Rubber Tired Dozers | 1 | 6.00 | 247 | 0.40 |
| Phase 2 Grading/Modernization | Graders | 1 | 6.00 | 187 | 0.41 |
| Phase 2 Grading/Modernization | Rubber Tired Dozers | 1 | 6.00 | 247 | 0.40 |
| Phase 2 Grading/Modernization | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Phase 1B Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Phase 1B Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Phase 1B Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Phase 2 Building Construction | Cranes | 1 | 4.00 | 231 | 0.29 |
| Phase 2 Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Phase 2 Building Construction | Generator Sets | 1 | 6.00 | 84 | 0.74 |
| Phase 2 Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |

| | | | | | |
|---|---|---|---|---|---|
| Phase 2 Building Construction | Welders | 1 | 6.00 | 46 | 0.45 |
| Phase 1A Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Phase 2 Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Phase 3 Demolition | Concrete/Industrial Saws | 1 | 6.00 | 81 | 0.73 |
| Phase 3 Demolition | Crushing/Proc. Equipment | 1 | 6.00 | 85 | 0.78 |
| Phase 3 Demolition | Excavators | 1 | 6.00 | 158 | 0.38 |
| Phase 3 Demolition | Other Construction Equipment | 1 | 6.00 | 172 | 0.42 |
| Phase 3 Demolition | Rubber Tired Dozers | 1 | 6.00 | 247 | 0.40 |
| Phase 3 Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Phase 3 Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Phase 3 Paving | Rollers | 2 | 8.00 | 80 | 0.38 |

## Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Phase 1A Demolition | 5 | 100.00 | 0.00 | 712.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 1A Grading/Modernization | 3 | 100.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 1A Building Construction | 5 | 300.00 | 65.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 1B Grading/Modernization | 3 | 100.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 1B Building Construction | 5 | 300.00 | 76.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 2 Demolition | 5 | 300.00 | 0.00 | 1,239.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 2 Grading/Modernization | 3 | 300.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 1B Paving | 6 | 300.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 2 Building Construction | 5 | 100.00 | 66.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 1A Architectural Coating | 1 | 300.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 2 Architectural Coating | 1 | 300.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 3 Demolition | 5 | 300.00 | 0.00 | 511.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 3 Paving | 6 | 100.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

## 3.2 Phase 1A Demolition - 2020

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 1.0338 | 0.0000 | 1.0338 | 0.1565 | 0.0000 | 0.1565 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.5659 | 11.6376 | 16.0109 | 0.0249 | | 0.6295 | 0.6295 | | 0.6295 | 0.6295 | 0.0000 | 2,387.5948 | 2,387.5948 | 0.5322 | | 2,400.9007 |
| **Total** | **0.5659** | **11.6376** | **16.0109** | **0.0249** | **1.0338** | **0.6295** | **1.6633** | **0.1565** | **0.6295** | **0.7861** | **0.0000** | **2,387.5948** | **2,387.5948** | **0.5322** | | **2,400.9007** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.2351 | 8.4246 | 1.6763 | 0.0240 | 0.5409 | 0.0272 | 0.5681 | 0.1482 | 0.0260 | 0.1742 | | 2,595.1756 | 2,595.1756 | 0.1742 | | 2,599.5293 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.4524 | 0.3041 | 4.0882 | 0.0115 | 1.1178 | 8.4800e-003 | 1.1262 | 0.2964 | 7.8100e-003 | 0.3043 | | 1,144.4175 | 1,144.4175 | 0.0329 | | 1,145.2400 |
| **Total** | **0.6876** | **8.7287** | **5.7645** | **0.0355** | **1.6587** | **0.0356** | **1.6943** | **0.4447** | **0.0338** | **0.4785** | | **3,739.5931** | **3,739.5931** | **0.2071** | | **3,744.7694** |

## 3.3 Phase 1A Grading/Modernization - 2020

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 1.9166 | 0.0000 | 1.9166 | 0.9850 | 0.0000 | 0.9850 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.3355 | 6.6857 | 7.7913 | 0.0137 | | 0.2954 | 0.2954 | | 0.2954 | 0.2954 | 0.0000 | 1,328.1223 | 1,328.1223 | 0.4295 | | 1,338.8608 |
| **Total** | **0.3355** | **6.6857** | **7.7913** | **0.0137** | **1.9166** | **0.2954** | **2.2120** | **0.9850** | **0.2954** | **1.2804** | **0.0000** | **1,328.1223** | **1,328.1223** | **0.4295** | | **1,338.8608** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.4524 | 0.3041 | 4.0882 | 0.0115 | 1.1178 | 8.4800e-003 | 1.1262 | 0.2964 | 7.8100e-003 | 0.3043 | | 1,144.4175 | 1,144.4175 | 0.0329 | | 1,145.2400 |
| **Total** | **0.4524** | **0.3041** | **4.0882** | **0.0115** | **1.1178** | **8.4800e-003** | **1.1262** | **0.2964** | **7.8100e-003** | **0.3043** | | **1,144.4175** | **1,144.4175** | **0.0329** | | **1,145.2400** |

## 3.4 Phase 1A Building Construction - 2020

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.5114 | 6.7479 | 8.5312 | 0.0132 | | 0.4114 | 0.4114 | | 0.4114 | 0.4114 | 0.0000 | 1,238.8785 | 1,238.8785 | 0.2485 | | 1,245.0920 |
| **Total** | **0.5114** | **6.7479** | **8.5312** | **0.0132** | | **0.4114** | **0.4114** | | **0.4114** | **0.4114** | **0.0000** | **1,238.8785** | **1,238.8785** | **0.2485** | | **1,245.0920** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.2135 | 6.8208 | 1.6242 | 0.0167 | 0.4160 | 0.0338 | 0.4498 | 0.1198 | 0.0323 | 0.1521 | | 1,783.9150 | 1,783.9150 | 0.1120 | | 1,786.7150 |
| Worker | 1.3573 | 0.9124 | 12.2645 | 0.0345 | 3.3533 | 0.0254 | 3.3787 | 0.8893 | 0.0234 | 0.9127 | | 3,433.2524 | 3,433.2524 | 0.0987 | | 3,435.7201 |
| **Total** | **1.5708** | **7.7332** | **13.8887** | **0.0512** | **3.7693** | **0.0592** | **3.8285** | **1.0091** | **0.0558** | **1.0648** | | **5,217.1673** | **5,217.1673** | **0.2107** | | **5,222.4351** |

## 3.4 Phase 1A Building Construction - 2021

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.4818 | 6.7011 | 8.4951 | 0.0132 | | 0.4018 | 0.4018 | | 0.4018 | 0.4018 | 0.0000 | 1,238.9518 | 1,238.9518 | 0.2434 | | 1,245.0357 |
| **Total** | **0.4818** | **6.7011** | **8.4951** | **0.0132** | | **0.4018** | **0.4018** | | **0.4018** | **0.4018** | **0.0000** | **1,238.9518** | **1,238.9518** | **0.2434** | | **1,245.0357** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1809 | 6.1994 | 1.4711 | 0.0166 | 0.4160 | 0.0125 | 0.4285 | 0.1198 | 0.0119 | 0.1317 | | 1,770.8500 | 1,770.8500 | 0.1071 | | 1,773.5281 |
| Worker | 1.2664 | 0.8213 | 11.3017 | 0.0333 | 3.3533 | 0.0247 | 3.3780 | 0.8893 | 0.0227 | 0.9120 | | 3,322.2099 | 3,322.2099 | 0.0893 | | 3,324.4434 |
| **Total** | **1.4472** | **7.0207** | **12.7729** | **0.0499** | **3.7693** | **0.0372** | **3.8065** | **1.0091** | **0.0347** | **1.0438** | | **5,093.0600** | **5,093.0600** | **0.1965** | | **5,097.9715** |

## 3.5 Phase 1A Architectural Coating - 2021

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 31.5215 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0594 | 1.3570 | 1.8324 | 2.9700e-003 | | 0.0951 | 0.0951 | | 0.0951 | 0.0951 | 0.0000 | 281.4481 | 281.4481 | 0.0193 | | 281.9309 |
| **Total** | **31.5810** | **1.3570** | **1.8324** | **2.9700e-003** | | **0.0951** | **0.0951** | | **0.0951** | **0.0951** | **0.0000** | **281.4481** | **281.4481** | **0.0193** | | **281.9309** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 1.2664 | 0.8213 | 11.3017 | 0.0333 | 3.3533 | 0.0247 | 3.3780 | 0.8893 | 0.0227 | 0.9120 | | 3,322.2099 | 3,322.2099 | 0.0893 | | 3,324.4434 |
| **Total** | **1.2664** | **0.8213** | **11.3017** | **0.0333** | **3.3533** | **0.0247** | **3.3780** | **0.8893** | **0.0227** | **0.9120** | | **3,322.2099** | **3,322.2099** | **0.0893** | | **3,324.4434** |

## 3.6 Phase 1B Grading/Modernization - 2020

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 1.9166 | 0.0000 | 1.9166 | 0.9850 | 0.0000 | 0.9850 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.3355 | 6.6857 | 7.7913 | 0.0137 | | 0.2954 | 0.2954 | | 0.2954 | 0.2954 | 0.0000 | 1,328.1223 | 1,328.1223 | 0.4295 | | 1,338.8608 |
| **Total** | **0.3355** | **6.6857** | **7.7913** | **0.0137** | **1.9166** | **0.2954** | **2.2120** | **0.9850** | **0.2954** | **1.2804** | **0.0000** | **1,328.1223** | **1,328.1223** | **0.4295** | | **1,338.8608** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.4524 | 0.3041 | 4.0882 | 0.0115 | 1.1178 | 8.4800e-003 | 1.1262 | 0.2964 | 7.8100e-003 | 0.3043 | | 1,144.4175 | 1,144.4175 | 0.0329 | | 1,145.2400 |
| **Total** | **0.4524** | **0.3041** | **4.0882** | **0.0115** | **1.1178** | **8.4800e-003** | **1.1262** | **0.2964** | **7.8100e-003** | **0.3043** | | **1,144.4175** | **1,144.4175** | **0.0329** | | **1,145.2400** |

## 3.7 Phase 1B Building Construction - 2020

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.5114 | 6.7479 | 8.5312 | 0.0132 | | 0.4114 | 0.4114 | | 0.4114 | 0.4114 | 0.0000 | 1,238.8785 | 1,238.8785 | 0.2485 | | 1,245.0920 |
| **Total** | **0.5114** | **6.7479** | **8.5312** | **0.0132** | | **0.4114** | **0.4114** | | **0.4114** | **0.4114** | **0.0000** | **1,238.8785** | **1,238.8785** | **0.2485** | | **1,245.0920** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.2496 | 7.9751 | 1.8990 | 0.0196 | 0.4864 | 0.0395 | 0.5259 | 0.1400 | 0.0378 | 0.1778 | | 2,085.8083 | 2,085.8083 | 0.1310 | | 2,089.0822 |
| Worker | 1.3573 | 0.9124 | 12.2645 | 0.0345 | 3.3533 | 0.0254 | 3.3787 | 0.8893 | 0.0234 | 0.9127 | | 3,433.2524 | 3,433.2524 | 0.0987 | | 3,435.7201 |
| **Total** | **1.6069** | **8.8875** | **14.1636** | **0.0540** | **3.8397** | **0.0650** | **3.9047** | **1.0293** | **0.0612** | **1.0906** | | **5,519.0606** | **5,519.0606** | **0.2297** | | **5,524.8023** |

## 3.8 Phase 1B Paving - 2020

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.5609 | 11.2952 | 17.2957 | 0.0228 | | 0.6093 | 0.6093 | | 0.6093 | 0.6093 | 0.0000 | 2,207.7334 | 2,207.7334 | 0.7140 | | 2,225.5841 |
| Paving | 0.0681 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.6291** | **11.2952** | **17.2957** | **0.0228** | | **0.6093** | **0.6093** | | **0.6093** | **0.6093** | **0.0000** | **2,207.7334** | **2,207.7334** | **0.7140** | | **2,225.5841** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 1.3573 | 0.9124 | 12.2645 | 0.0345 | 3.3533 | 0.0254 | 3.3787 | 0.8893 | 0.0234 | 0.9127 | | 3,433.2524 | 3,433.2524 | 0.0987 | | 3,435.7201 |
| **Total** | **1.3573** | **0.9124** | **12.2645** | **0.0345** | **3.3533** | **0.0254** | **3.3787** | **0.8893** | **0.0234** | **0.9127** | | **3,433.2524** | **3,433.2524** | **0.0987** | | **3,435.7201** |

## 3.9 Phase 2 Demolition - 2020

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 1.3784 | 0.0000 | 1.3784 | 0.2087 | 0.0000 | 0.2087 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.5659 | 11.6376 | 16.0109 | 0.0249 | | 0.6295 | 0.6295 | | 0.6295 | 0.6295 | 0.0000 | 2,387.5948 | 2,387.5948 | 0.5322 | | 2,400.9007 |
| **Total** | **0.5659** | **11.6376** | **16.0109** | **0.0249** | **1.3784** | **0.6295** | **2.0080** | **0.2087** | **0.6295** | **0.8382** | **0.0000** | **2,387.5948** | **2,387.5948** | **0.5322** | | **2,400.9007** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.3137 | 11.2395 | 2.2364 | 0.0320 | 0.7217 | 0.0362 | 0.7579 | 0.1978 | 0.0347 | 0.2324 | | 3,462.2996 | 3,462.2996 | 0.2323 | | 3,468.1080 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 1.3573 | 0.9124 | 12.2645 | 0.0345 | 3.3533 | 0.0254 | 3.3787 | 0.8893 | 0.0234 | 0.9127 | | 3,433.2524 | 3,433.2524 | 0.0987 | | 3,435.7201 |
| **Total** | **1.6710** | **12.1519** | **14.5009** | **0.0665** | **4.0750** | **0.0617** | **4.1366** | **1.0871** | **0.0581** | **1.1452** | | **6,895.5520** | **6,895.5520** | **0.3311** | | **6,903.8281** |

## 3.10 Phase 2 Grading/Modernization - 2020

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 1.9166 | 0.0000 | 1.9166 | 0.9850 | 0.0000 | 0.9850 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.3355 | 6.6857 | 7.7913 | 0.0137 | | 0.2954 | 0.2954 | | 0.2954 | 0.2954 | 0.0000 | 1,328.1223 | 1,328.1223 | 0.4295 | | 1,338.8608 |
| **Total** | **0.3355** | **6.6857** | **7.7913** | **0.0137** | **1.9166** | **0.2954** | **2.2120** | **0.9850** | **0.2954** | **1.2804** | **0.0000** | **1,328.1223** | **1,328.1223** | **0.4295** | | **1,338.8608** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 1.3573 | 0.9124 | 12.2645 | 0.0345 | 3.3533 | 0.0254 | 3.3787 | 0.8893 | 0.0234 | 0.9127 | | 3,433.2524 | 3,433.2524 | 0.0987 | | 3,435.7201 |
| **Total** | **1.3573** | **0.9124** | **12.2645** | **0.0345** | **3.3533** | **0.0254** | **3.3787** | **0.8893** | **0.0234** | **0.9127** | | **3,433.2524** | **3,433.2524** | **0.0987** | | **3,435.7201** |

## 3.11 Phase 2 Building Construction - 2020

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.5114 | 6.7479 | 8.5312 | 0.0132 | | 0.4114 | 0.4114 | | 0.4114 | 0.4114 | 0.0000 | 1,238.8785 | 1,238.8785 | 0.2485 | | 1,245.0920 |
| **Total** | **0.5114** | **6.7479** | **8.5312** | **0.0132** | | **0.4114** | **0.4114** | | **0.4114** | **0.4114** | **0.0000** | **1,238.8785** | **1,238.8785** | **0.2485** | | **1,245.0920** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.2168 | 6.9257 | 1.6492 | 0.0170 | 0.4224 | 0.0343 | 0.4567 | 0.1216 | 0.0328 | 0.1544 | | 1,811.3598 | 1,811.3598 | 0.1137 | | 1,814.2030 |
| Worker | 0.4524 | 0.3041 | 4.0882 | 0.0115 | 1.1178 | 8.4800e-003 | 1.1262 | 0.2964 | 7.8100e-003 | 0.3043 | | 1,144.4175 | 1,144.4175 | 0.0329 | | 1,145.2400 |
| **Total** | **0.6692** | **7.2299** | **5.7373** | **0.0285** | **1.5402** | **0.0428** | **1.5830** | **0.4181** | **0.0406** | **0.4587** | | **2,955.7773** | **2,955.7773** | **0.1466** | | **2,959.4430** |

## 3.11 Phase 2 Building Construction - 2021

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.4818 | 6.7011 | 8.4951 | 0.0132 | | 0.4018 | 0.4018 | | 0.4018 | 0.4018 | 0.0000 | 1,238.9518 | 1,238.9518 | 0.2434 | | 1,245.0357 |
| **Total** | **0.4818** | **6.7011** | **8.4951** | **0.0132** | | **0.4018** | **0.4018** | | **0.4018** | **0.4018** | **0.0000** | **1,238.9518** | **1,238.9518** | **0.2434** | | **1,245.0357** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1837 | 6.2948 | 1.4938 | 0.0168 | 0.4224 | 0.0127 | 0.4351 | 0.1216 | 0.0121 | 0.1337 | | 1,798.0939 | 1,798.0939 | 0.1088 | | 1,800.8131 |
| Worker | 0.4221 | 0.2738 | 3.7672 | 0.0111 | 1.1178 | 8.2300e-003 | 1.1260 | 0.2964 | 7.5800e-003 | 0.3040 | | 1,107.4033 | 1,107.4033 | 0.0298 | | 1,108.1478 |
| **Total** | **0.6058** | **6.5686** | **5.2610** | **0.0280** | **1.5402** | **0.0209** | **1.5611** | **0.4181** | **0.0197** | **0.4377** | | **2,905.4972** | **2,905.4972** | **0.1386** | | **2,908.9609** |

## 3.11 Phase 2 Building Construction - 2022

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.4623 | 6.6666 | 8.4778 | 0.0132 | | 0.3941 | 0.3941 | | 0.3941 | 0.3941 | 0.0000 | 1,239.2517 | 1,239.2517 | 0.2402 | | 1,245.2559 |
| **Total** | **0.4623** | **6.6666** | **8.4778** | **0.0132** | | **0.3941** | **0.3941** | | **0.3941** | **0.3941** | **0.0000** | **1,239.2517** | **1,239.2517** | **0.2402** | | **1,245.2559** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1722 | 5.9752 | 1.4117 | 0.0167 | 0.4224 | 0.0110 | 0.4334 | 0.1216 | 0.0105 | 0.1321 | | 1,782.3902 | 1,782.3902 | 0.1047 | | 1,785.0080 |
| Worker | 0.3960 | 0.2473 | 3.4835 | 0.0107 | 1.1178 | 7.9900e-003 | 1.1258 | 0.2964 | 7.3600e-003 | 0.3038 | | 1,067.7239 | 1,067.7239 | 0.0269 | | 1,068.3968 |
| **Total** | **0.5682** | **6.2225** | **4.8953** | **0.0274** | **1.5402** | **0.0190** | **1.5592** | **0.4181** | **0.0179** | **0.4359** | | **2,850.1142** | **2,850.1142** | **0.1316** | | **2,853.4048** |

## 3.12 Phase 2 Architectural Coating - 2022

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 15.2295 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0594 | 1.3570 | 1.8324 | 2.9700e-003 | | 0.0951 | 0.0951 | | 0.0951 | 0.0951 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| **Total** | **15.2889** | **1.3570** | **1.8324** | **2.9700e-003** | | **0.0951** | **0.0951** | | **0.0951** | **0.0951** | **0.0000** | **281.4481** | **281.4481** | **0.0183** | | **281.9062** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 1.1879 | 0.7419 | 10.4506 | 0.0321 | 3.3533 | 0.0240 | 3.3773 | 0.8893 | 0.0221 | 0.9114 | | 3,203.1718 | 3,203.1718 | 0.0807 | | 3,205.1904 |
| **Total** | **1.1879** | **0.7419** | **10.4506** | **0.0321** | **3.3533** | **0.0240** | **3.3773** | **0.8893** | **0.0221** | **0.9114** | | **3,203.1718** | **3,203.1718** | **0.0807** | | **3,205.1904** |

## 3.13 Phase 3 Demolition - 2022

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.1410 | 0.0000 | 0.1410 | 0.0214 | 0.0000 | 0.0214 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.5659 | 11.6376 | 16.0109 | 0.0249 | | 0.6295 | 0.6295 | | 0.6295 | 0.6295 | 0.0000 | 2,386.9325 | 2,386.9325 | 0.5237 | | 2,400.0256 |
| **Total** | **0.5659** | **11.6376** | **16.0109** | **0.0249** | **0.1410** | **0.6295** | **0.7705** | **0.0214** | **0.6295** | **0.6509** | **0.0000** | **2,386.9325** | **2,386.9325** | **0.5237** | | **2,400.0256** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0291 | 0.9872 | 0.2236 | 3.1900e-003 | 0.0738 | 2.8500e-003 | 0.0766 | 0.0202 | 2.7200e-003 | 0.0230 | | 346.1940 | 346.1940 | 0.0230 | | 346.7678 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 1.1879 | 0.7419 | 10.4506 | 0.0321 | 3.3533 | 0.0240 | 3.3773 | 0.8893 | 0.0221 | 0.9114 | | 3,203.1718 | 3,203.1718 | 0.0807 | | 3,205.1904 |
| **Total** | **1.2170** | **1.7291** | **10.6742** | **0.0353** | **3.4271** | **0.0268** | **3.4539** | **0.9095** | **0.0248** | **0.9343** | | **3,549.3658** | **3,549.3658** | **0.1037** | | **3,551.9581** |

## 3.14 Phase 3 Paving - 2022

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.5609 | 11.2952 | 17.2957 | 0.0228 | | 0.6093 | 0.6093 | | 0.6093 | 0.6093 | 0.0000 | 2,207.6603 | 2,207.6603 | 0.7140 | | 2,225.5104 |
| Paving | 0.1084 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.6693** | **11.2952** | **17.2957** | **0.0228** | | **0.6093** | **0.6093** | | **0.6093** | **0.6093** | **0.0000** | **2,207.6603** | **2,207.6603** | **0.7140** | | **2,225.5104** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.3960 | 0.2473 | 3.4835 | 0.0107 | 1.1178 | 7.9900e-003 | 1.1258 | 0.2964 | 7.3600e-003 | 0.3038 | | 1,067.7239 | 1,067.7239 | 0.0269 | | 1,068.3968 |
| **Total** | **0.3960** | **0.2473** | **3.4835** | **0.0107** | **1.1178** | **7.9900e-003** | **1.1258** | **0.2964** | **7.3600e-003** | **0.3038** | | **1,067.7239** | **1,067.7239** | **0.0269** | | **1,068.3968** |

# CalEEMod Winter Output

LAUSD San Pedro High School Modernization - South Coast AQMD Air District, Winter

# LAUSD San Pedro High School Modernization

**South Coast AQMD Air District, Winter**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| High School | 2,700.00 | Student | 22.90 | 358,184.64 | 0 |
| Parking Lot | 39.80 | 1000sqft | 0.91 | 39,800.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 31 |
| **Climate Zone** | 11 | | | **Operational Year** | 2020 |
| **Utility Company** | Los Angeles Department of Water & Power | | | | |
| **CO2 Intensity (lb/MWhr)** | 1227.89 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project Specific Information

Construction Phase - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Demolition -

Off-road Equipment -

Grading -

Trips and VMT - Project Specific Information

Construction Off-road Equipment Mitigation - Project Specific Information

Architectural Coating - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 179,092.00 | 35,243.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 179,092.00 | 20,420.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 537,277.00 | 105,729.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 537,277.00 | 61,260.00 |
| tblArchitecturalCoating | ConstArea_Parking | 2,388.00 | 1,844.00 |
| tblArchitecturalCoating | ConstArea_Parking | 2,388.00 | 464.00 |
| tblArchitecturalCoating | PhaseName | Phase 1 A Architectural Coating | Phase 1A Architectural Coating |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
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| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
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| tblConstructionPhase | NumDays | 370.00 | 325.00 |
| tblConstructionPhase | NumDays | 35.00 | 45.00 |
| tblConstructionPhase | NumDays | 370.00 | 40.00 |
| tblConstructionPhase | NumDays | 20.00 | 30.00 |
| tblConstructionPhase | NumDays | 35.00 | 45.00 |
| tblConstructionPhase | NumDays | 20.00 | 35.00 |
| tblConstructionPhase | NumDays | 370.00 | 459.00 |
| tblConstructionPhase | NumDays | 20.00 | 21.00 |
| tblConstructionPhase | NumDays | 20.00 | 25.00 |
| tblConstructionPhase | NumDays | 20.00 | 121.00 |

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| tblGrading | PhaseName | Phase 1 B Grading/Modernization | Phase 1B Grading/Modernization |
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| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
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| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |
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| tblOffRoadEquipment | PhaseName | Phase 1 B Building Construction | Phase 1B Building Construction |
| tblOffRoadEquipment | PhaseName | Phase 1 A Demolition | Phase 1A Demolition |

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| tblOffRoadEquipment | PhaseName | Phase 1 A Demolition | Phase 1A Demolition |
| tblOffRoadEquipment | PhaseName | Phase 1 A Grading/Modernization | Phase 1A Grading/Modernization |
| tblOffRoadEquipment | PhaseName | Phase 1 B Grading/Modernization | Phase 1B Grading/Modernization |
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| tblOffRoadEquipment | PhaseName | Phase 1 B Building Construction | Phase 1B Building Construction |
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| tblOffRoadEquipment | PhaseName | | Phase 2 Demolition |
| tblOffRoadEquipment | PhaseName | | Phase 1A Demolition |
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| tblOffRoadEquipment | UsageHours | 7.00 | 4.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 4.00 |
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| tblOnRoadDust | PhaseName | Phase 1 B Grading/Modernization | Phase 1B Grading/Modernization |
| tblOnRoadDust | PhaseName | Phase 1 A Building Construction | Phase 1A Building Construction |

| | | | |
|---|---|---|---|
| tblOnRoadDust | PhaseName | Phase 1 B Building Construction | Phase 1B Building Construction |
| tblOnRoadDust | PhaseName | Phase 1 B Paving | Phase 1B Paving |
| tblTripsAndVMT | HaulingTripNumber | 282.00 | 712.00 |
| tblTripsAndVMT | HaulingTripNumber | 490.00 | 1,239.00 |
| tblTripsAndVMT | HaulingTripNumber | 202.00 | 511.00 |
| tblTripsAndVMT | PhaseName | Phase 1 A Demolition | Phase 1A Demolition |
| tblTripsAndVMT | PhaseName | Phase 1 A Architectural Coating | Phase 1A Architectural Coating |
| tblTripsAndVMT | PhaseName | Phase 1 A Grading/Modernization | Phase 1A Grading/Modernization |
| tblTripsAndVMT | PhaseName | Phase 1 B Grading/Modernization | Phase 1B Grading/Modernization |
| tblTripsAndVMT | PhaseName | Phase 1 A Building Construction | Phase 1A Building Construction |
| tblTripsAndVMT | PhaseName | Phase 1 B Building Construction | Phase 1B Building Construction |
| tblTripsAndVMT | PhaseName | Phase 1 B Paving | Phase 1B Paving |
| tblTripsAndVMT | VendorTripNumber | 65.00 | 76.00 |
| tblTripsAndVMT | VendorTripNumber | 65.00 | 66.00 |
| tblTripsAndVMT | WorkerTripNumber | 13.00 | 100.00 |
| tblTripsAndVMT | WorkerTripNumber | 8.00 | 100.00 |
| tblTripsAndVMT | WorkerTripNumber | 167.00 | 300.00 |
| tblTripsAndVMT | WorkerTripNumber | 8.00 | 100.00 |
| tblTripsAndVMT | WorkerTripNumber | 167.00 | 300.00 |
| tblTripsAndVMT | WorkerTripNumber | 13.00 | 300.00 |
| tblTripsAndVMT | WorkerTripNumber | 8.00 | 300.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 300.00 |
| tblTripsAndVMT | WorkerTripNumber | 167.00 | 100.00 |
| tblTripsAndVMT | WorkerTripNumber | 33.00 | 300.00 |
| tblTripsAndVMT | WorkerTripNumber | 33.00 | 300.00 |
| tblTripsAndVMT | WorkerTripNumber | 13.00 | 300.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 100.00 |

# 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2020 | 6.8375 | 54.2947 | 72.5367 | 0.2147 | 13.0624 | 1.6398 | 14.7022 | 3.9127 | 1.6290 | 5.1919 | 0.0000 | 21,655.0360 | 21,655.0360 | 1.8090 | 0.0000 | 21,700.2596 |
| 2021 | 36.1565 | 29.3115 | 45.8381 | 0.1346 | 8.6628 | 0.9822 | 9.6450 | 2.3164 | 0.9766 | 3.2930 | 0.0000 | 13,474.6342 | 13,474.6342 | 0.9322 | 0.0000 | 13,497.9391 |
| 2022 | 19.5646 | 28.5047 | 50.0144 | 0.1305 | 8.4615 | 1.1889 | 9.6505 | 2.2382 | 1.1839 | 3.4221 | 0.0000 | 12,967.6059 | 12,967.6059 | 1.0940 | 0.0000 | 12,994.9546 |
| **Maximum** | **36.1565** | **54.2947** | **72.5367** | **0.2147** | **13.0624** | **1.6398** | **14.7022** | **3.9127** | **1.6290** | **5.1919** | **0.0000** | **21,655.0360** | **21,655.0360** | **1.8090** | **0.0000** | **21,700.2596** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **7.85** | **15.29** | **-4.67** | **0.00** | **9.13** | **16.08** | **8.98** | **15.68** | **12.28** | **14.94** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

# 3.0 Construction Detail

### Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Phase 1A Demolition | Demolition | 1/1/2020 | 1/31/2020 | 5 | 23 | 11 |
| 2 | Phase 1A Grading/Modernization | Grading | 2/1/2020 | 4/5/2020 | 5 | 45 | 12 |
| 3 | Phase 1A Building Construction | Building Construction | 4/6/2020 | 7/2/2021 | 5 | 325 | 13 |
| 4 | Phase 1A Architectural Coating | Architectural Coating | 7/2/2021 | 7/31/2021 | 5 | 21 | 14 |
| 5 | Phase 1B Grading/Modernization | Grading | 4/6/2020 | 6/5/2020 | 5 | 45 | 15 |
| 6 | Phase 1B Building Construction | Building Construction | 6/6/2020 | 7/31/2020 | 5 | 40 | 16 |
| 7 | Phase 1B Paving | Paving | 8/1/2020 | 9/20/2020 | 5 | 35 | 17 |
| 8 | Phase 2 Demolition | Demolition | 6/15/2020 | 7/25/2020 | 5 | 30 | 18 |
| 9 | Phase 2 Grading/Modernization | Grading | 7/26/2020 | 9/25/2020 | 5 | 45 | 19 |
| 10 | Phase 2 Building Construction | Building Construction | 9/26/2020 | 6/30/2022 | 5 | 459 | 20 |
| 11 | Phase 2 Architectural Coating | Architectural Coating | 6/15/2022 | 7/19/2022 | 5 | 25 | 21 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 12 | Phase 3 Demolition | Demolition | 6/15/2022 | 11/30/2022 | 5 | 121 | 22 |
| 13 | Phase 3 Paving | Paving | 12/1/2022 | 12/31/2022 | 5 | 22 | 23 |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0.91**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 105,729; Non-Residential Outdoor: 35,243; Striped Parking Area:**

## OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Phase 1A Demolition | Concrete/Industrial Saws | 1 | 6.00 | 81 | 0.73 |
| Phase 1A Demolition | Crushing/Proc. Equipment | 1 | 6.00 | 85 | 0.78 |
| Phase 1A Demolition | Excavators | 1 | 6.00 | 158 | 0.38 |
| Phase 1A Demolition | Other Construction Equipment | 1 | 6.00 | 172 | 0.42 |
| Phase 1A Demolition | Rubber Tired Dozers | 1 | 6.00 | 247 | 0.40 |
| Phase 1A Grading/Modernization | Graders | 1 | 6.00 | 187 | 0.41 |
| Phase 1A Grading/Modernization | Rubber Tired Dozers | 1 | 6.00 | 247 | 0.40 |
| Phase 1A Grading/Modernization | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Phase 1A Building Construction | Cranes | 1 | 4.00 | 231 | 0.29 |
| Phase 1A Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Phase 1A Building Construction | Generator Sets | 1 | 6.00 | 84 | 0.74 |
| Phase 1A Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Phase 1A Building Construction | Welders | 1 | 6.00 | 46 | 0.45 |
| Phase 1B Grading/Modernization | Graders | 1 | 6.00 | 187 | 0.41 |
| Phase 1B Grading/Modernization | Rubber Tired Dozers | 1 | 6.00 | 247 | 0.40 |
| Phase 1B Grading/Modernization | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Phase 1B Building Construction | Cranes | 1 | 4.00 | 231 | 0.29 |
| Phase 1B Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Phase 1B Building Construction | Generator Sets | 1 | 6.00 | 84 | 0.74 |
| Phase 1B Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Phase 1B Building Construction | Welders | 1 | 6.00 | 46 | 0.45 |

| | | | | | |
|---|---|---|---|---|---|
| Phase 2 Demolition | Concrete/Industrial Saws | 1 | 6.00 | 81 | 0.73 |
| Phase 2 Demolition | Crushing/Proc. Equipment | 1 | 6.00 | 85 | 0.78 |
| Phase 2 Demolition | Excavators | 1 | 6.00 | 158 | 0.38 |
| Phase 2 Demolition | Other Construction Equipment | 1 | 6.00 | 172 | 0.42 |
| Phase 2 Demolition | Rubber Tired Dozers | 1 | 6.00 | 247 | 0.40 |
| Phase 2 Grading/Modernization | Graders | 1 | 6.00 | 187 | 0.41 |
| Phase 2 Grading/Modernization | Rubber Tired Dozers | 1 | 6.00 | 247 | 0.40 |
| Phase 2 Grading/Modernization | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Phase 1B Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Phase 1B Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Phase 1B Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Phase 2 Building Construction | Cranes | 1 | 4.00 | 231 | 0.29 |
| Phase 2 Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Phase 2 Building Construction | Generator Sets | 1 | 6.00 | 84 | 0.74 |
| Phase 2 Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Phase 2 Building Construction | Welders | 1 | 6.00 | 46 | 0.45 |
| Phase 1A Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Phase 2 Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Phase 3 Demolition | Concrete/Industrial Saws | 1 | 6.00 | 81 | 0.73 |
| Phase 3 Demolition | Crushing/Proc. Equipment | 1 | 6.00 | 85 | 0.78 |
| Phase 3 Demolition | Excavators | 1 | 6.00 | 158 | 0.38 |
| Phase 3 Demolition | Other Construction Equipment | 1 | 6.00 | 172 | 0.42 |
| Phase 3 Demolition | Rubber Tired Dozers | 1 | 6.00 | 247 | 0.40 |
| Phase 3 Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Phase 3 Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Phase 3 Paving | Rollers | 2 | 8.00 | 80 | 0.38 |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Phase 1A Demolition | 5 | 100.00 | 0.00 | 712.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 1A Grading/Modernization | 3 | 100.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 1A Building Construction | 5 | 300.00 | 65.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 1B Grading/Modernization | 3 | 100.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 1B Building Construction | 5 | 300.00 | 76.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 2 Demolition | 5 | 300.00 | 0.00 | 1,239.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 2 Grading/Modernization | 3 | 300.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 1B Paving | 6 | 300.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 2 Building Construction | 5 | 100.00 | 66.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 1A Architectural Coating | 1 | 300.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 2 Architectural Coating | 1 | 300.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 3 Demolition | 5 | 300.00 | 0.00 | 511.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 3 Paving | 6 | 100.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

## 3.2 Phase 1A Demolition - 2020

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 1.0338 | 0.0000 | 1.0338 | 0.1565 | 0.0000 | 0.1565 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.5659 | 11.6376 | 16.0109 | 0.0249 | | 0.6295 | 0.6295 | | 0.6295 | 0.6295 | 0.0000 | 2,387.5948 | 2,387.5948 | 0.5322 | | 2,400.9007 |
| **Total** | **0.5659** | **11.6376** | **16.0109** | **0.0249** | **1.0338** | **0.6295** | **1.6633** | **0.1565** | **0.6295** | **0.7861** | **0.0000** | **2,387.5948** | **2,387.5948** | **0.5322** | | **2,400.9007** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.2419 | 8.5327 | 1.8045 | 0.0236 | 0.5409 | 0.0276 | 0.5685 | 0.1482 | 0.0264 | 0.1746 | | 2,547.4061 | 2,547.4061 | 0.1817 | | 2,551.9489 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.4935 | 0.3330 | 3.6809 | 0.0107 | 1.1178 | 8.4800e-003 | 1.1262 | 0.2964 | 7.8100e-003 | 0.3043 | | 1,070.3650 | 1,070.3650 | 0.0307 | | 1,071.1324 |
| **Total** | **0.7353** | **8.8657** | **5.4854** | **0.0343** | **1.6587** | **0.0361** | **1.6948** | **0.4447** | **0.0342** | **0.4789** | | **3,617.7711** | **3,617.7711** | **0.2124** | | **3,623.0812** |

## 3.3 Phase 1A Grading/Modernization - 2020

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 1.9166 | 0.0000 | 1.9166 | 0.9850 | 0.0000 | 0.9850 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.3355 | 6.6857 | 7.7913 | 0.0137 | | 0.2954 | 0.2954 | | 0.2954 | 0.2954 | 0.0000 | 1,328.1223 | 1,328.1223 | 0.4295 | | 1,338.8608 |
| **Total** | **0.3355** | **6.6857** | **7.7913** | **0.0137** | **1.9166** | **0.2954** | **2.2120** | **0.9850** | **0.2954** | **1.2804** | **0.0000** | **1,328.1223** | **1,328.1223** | **0.4295** | | **1,338.8608** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.4935 | 0.3330 | 3.6809 | 0.0107 | 1.1178 | 8.4800e-003 | 1.1262 | 0.2964 | 7.8100e-003 | 0.3043 | | 1,070.3650 | 1,070.3650 | 0.0307 | | 1,071.1324 |
| **Total** | **0.4935** | **0.3330** | **3.6809** | **0.0107** | **1.1178** | **8.4800e-003** | **1.1262** | **0.2964** | **7.8100e-003** | **0.3043** | | **1,070.3650** | **1,070.3650** | **0.0307** | | **1,071.1324** |

## 3.4 Phase 1A Building Construction - 2020

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.5114 | 6.7479 | 8.5312 | 0.0132 | | 0.4114 | 0.4114 | | 0.4114 | 0.4114 | 0.0000 | 1,238.8785 | 1,238.8785 | 0.2485 | | 1,245.0920 |
| **Total** | **0.5114** | **6.7479** | **8.5312** | **0.0132** | | **0.4114** | **0.4114** | | **0.4114** | **0.4114** | **0.0000** | **1,238.8785** | **1,238.8785** | **0.2485** | | **1,245.0920** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.2236 | 6.8137 | 1.8108 | 0.0163 | 0.4160 | 0.0343 | 0.4503 | 0.1198 | 0.0328 | 0.1526 | | 1,732.3332 | 1,732.3332 | 0.1203 | | 1,735.3405 |
| Worker | 1.4804 | 0.9990 | 11.0426 | 0.0322 | 3.3533 | 0.0254 | 3.3787 | 0.8893 | 0.0234 | 0.9127 | | 3,211.0949 | 3,211.0949 | 0.0921 | | 3,213.3971 |
| **Total** | **1.7040** | **7.8128** | **12.8534** | **0.0485** | **3.7693** | **0.0597** | **3.8290** | **1.0091** | **0.0562** | **1.0653** | | **4,943.4281** | **4,943.4281** | **0.2124** | | **4,948.7376** |

## 3.4 Phase 1A Building Construction - 2021

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.4818 | 6.7011 | 8.4951 | 0.0132 | | 0.4018 | 0.4018 | | 0.4018 | 0.4018 | 0.0000 | 1,238.9518 | 1,238.9518 | 0.2434 | | 1,245.0357 |
| **Total** | **0.4818** | **6.7011** | **8.4951** | **0.0132** | | **0.4018** | **0.4018** | | **0.4018** | **0.4018** | **0.0000** | **1,238.9518** | **1,238.9518** | **0.2434** | | **1,245.0357** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1904 | 6.1798 | 1.6462 | 0.0161 | 0.4160 | 0.0129 | 0.4289 | 0.1198 | 0.0123 | 0.1321 | | 1,719.5763 | 1,719.5763 | 0.1151 | | 1,722.4526 |
| Worker | 1.3836 | 0.8991 | 10.1562 | 0.0312 | 3.3533 | 0.0247 | 3.3780 | 0.8893 | 0.0227 | 0.9120 | | 3,107.0036 | 3,107.0036 | 0.0833 | | 3,109.0853 |
| **Total** | **1.5740** | **7.0788** | **11.8024** | **0.0473** | **3.7693** | **0.0376** | **3.8069** | **1.0091** | **0.0351** | **1.0441** | | **4,826.5799** | **4,826.5799** | **0.1983** | | **4,831.5379** |

## 3.5 Phase 1A Architectural Coating - 2021

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 31.5215 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0594 | 1.3570 | 1.8324 | 2.9700e-003 | | 0.0951 | 0.0951 | | 0.0951 | 0.0951 | 0.0000 | 281.4481 | 281.4481 | 0.0193 | | 281.9309 |
| **Total** | **31.5810** | **1.3570** | **1.8324** | **2.9700e-003** | | **0.0951** | **0.0951** | | **0.0951** | **0.0951** | **0.0000** | **281.4481** | **281.4481** | **0.0193** | | **281.9309** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 1.3836 | 0.8991 | 10.1562 | 0.0312 | 3.3533 | 0.0247 | 3.3780 | 0.8893 | 0.0227 | 0.9120 | | 3,107.0036 | 3,107.0036 | 0.0833 | | 3,109.0853 |
| **Total** | **1.3836** | **0.8991** | **10.1562** | **0.0312** | **3.3533** | **0.0247** | **3.3780** | **0.8893** | **0.0227** | **0.9120** | | **3,107.0036** | **3,107.0036** | **0.0833** | | **3,109.0853** |

## 3.6 Phase 1B Grading/Modernization - 2020

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 1.9166 | 0.0000 | 1.9166 | 0.9850 | 0.0000 | 0.9850 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.3355 | 6.6857 | 7.7913 | 0.0137 | | 0.2954 | 0.2954 | | 0.2954 | 0.2954 | 0.0000 | 1,328.1223 | 1,328.1223 | 0.4295 | | 1,338.8608 |
| **Total** | **0.3355** | **6.6857** | **7.7913** | **0.0137** | **1.9166** | **0.2954** | **2.2120** | **0.9850** | **0.2954** | **1.2804** | **0.0000** | **1,328.1223** | **1,328.1223** | **0.4295** | | **1,338.8608** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.4935 | 0.3330 | 3.6809 | 0.0107 | 1.1178 | 8.4800e-003 | 1.1262 | 0.2964 | 7.8100e-003 | 0.3043 | | 1,070.3650 | 1,070.3650 | 0.0307 | | 1,071.1324 |
| **Total** | **0.4935** | **0.3330** | **3.6809** | **0.0107** | **1.1178** | **8.4800e-003** | **1.1262** | **0.2964** | **7.8100e-003** | **0.3043** | | **1,070.3650** | **1,070.3650** | **0.0307** | | **1,071.1324** |

## 3.7 Phase 1B Building Construction - 2020

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.5114 | 6.7479 | 8.5312 | 0.0132 | | 0.4114 | 0.4114 | | 0.4114 | 0.4114 | 0.0000 | 1,238.8785 | 1,238.8785 | 0.2485 | | 1,245.0920 |
| **Total** | **0.5114** | **6.7479** | **8.5312** | **0.0132** | | **0.4114** | **0.4114** | | **0.4114** | **0.4114** | **0.0000** | **1,238.8785** | **1,238.8785** | **0.2485** | | **1,245.0920** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.2614 | 7.9668 | 2.1173 | 0.0190 | 0.4864 | 0.0401 | 0.5265 | 0.1400 | 0.0384 | 0.1784 | | 2,025.4973 | 2,025.4973 | 0.1407 | | 2,029.0135 |
| Worker | 1.4804 | 0.9990 | 11.0426 | 0.0322 | 3.3533 | 0.0254 | 3.3787 | 0.8893 | 0.0234 | 0.9127 | | 3,211.0949 | 3,211.0949 | 0.0921 | | 3,213.3971 |
| **Total** | **1.7418** | **8.9658** | **13.1599** | **0.0512** | **3.8397** | **0.0655** | **3.9053** | **1.0293** | **0.0618** | **1.0911** | | **5,236.5922** | **5,236.5922** | **0.2327** | | **5,242.4106** |

## 3.8 Phase 1B Paving - 2020

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.5609 | 11.2952 | 17.2957 | 0.0228 | | 0.6093 | 0.6093 | | 0.6093 | 0.6093 | 0.0000 | 2,207.7334 | 2,207.7334 | 0.7140 | | 2,225.5841 |
| Paving | 0.0681 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.6291** | **11.2952** | **17.2957** | **0.0228** | | **0.6093** | **0.6093** | | **0.6093** | **0.6093** | **0.0000** | **2,207.7334** | **2,207.7334** | **0.7140** | | **2,225.5841** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 1.4804 | 0.9990 | 11.0426 | 0.0322 | 3.3533 | 0.0254 | 3.3787 | 0.8893 | 0.0234 | 0.9127 | | 3,211.0949 | 3,211.0949 | 0.0921 | | 3,213.3971 |
| **Total** | **1.4804** | **0.9990** | **11.0426** | **0.0322** | **3.3533** | **0.0254** | **3.3787** | **0.8893** | **0.0234** | **0.9127** | | **3,211.0949** | **3,211.0949** | **0.0921** | | **3,213.3971** |

## 3.9 Phase 2 Demolition - 2020

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 1.3784 | 0.0000 | 1.3784 | 0.2087 | 0.0000 | 0.2087 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.5659 | 11.6376 | 16.0109 | 0.0249 | | 0.6295 | 0.6295 | | 0.6295 | 0.6295 | 0.0000 | 2,387.5948 | 2,387.5948 | 0.5322 | | 2,400.9007 |
| **Total** | **0.5659** | **11.6376** | **16.0109** | **0.0249** | **1.3784** | **0.6295** | **2.0080** | **0.2087** | **0.6295** | **0.8382** | **0.0000** | **2,387.5948** | **2,387.5948** | **0.5322** | | **2,400.9007** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.3227 | 11.3838 | 2.4075 | 0.0314 | 0.7217 | 0.0368 | 0.7585 | 0.1978 | 0.0352 | 0.2330 | | 3,398.5689 | 3,398.5689 | 0.2424 | | 3,404.6295 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 1.4804 | 0.9990 | 11.0426 | 0.0322 | 3.3533 | 0.0254 | 3.3787 | 0.8893 | 0.0234 | 0.9127 | | 3,211.0949 | 3,211.0949 | 0.0921 | | 3,213.3971 |
| **Total** | **1.8031** | **12.3828** | **13.4501** | **0.0637** | **4.0750** | **0.0622** | **4.1372** | **1.0871** | **0.0586** | **1.1457** | | **6,609.6638** | **6,609.6638** | **0.3345** | | **6,618.0267** |

## 3.10 Phase 2 Grading/Modernization - 2020

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 1.9166 | 0.0000 | 1.9166 | 0.9850 | 0.0000 | 0.9850 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.3355 | 6.6857 | 7.7913 | 0.0137 | | 0.2954 | 0.2954 | | 0.2954 | 0.2954 | 0.0000 | 1,328.1223 | 1,328.1223 | 0.4295 | | 1,338.8608 |
| **Total** | **0.3355** | **6.6857** | **7.7913** | **0.0137** | **1.9166** | **0.2954** | **2.2120** | **0.9850** | **0.2954** | **1.2804** | **0.0000** | **1,328.1223** | **1,328.1223** | **0.4295** | | **1,338.8608** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 1.4804 | 0.9990 | 11.0426 | 0.0322 | 3.3533 | 0.0254 | 3.3787 | 0.8893 | 0.0234 | 0.9127 | | 3,211.0949 | 3,211.0949 | 0.0921 | | 3,213.3971 |
| **Total** | **1.4804** | **0.9990** | **11.0426** | **0.0322** | **3.3533** | **0.0254** | **3.3787** | **0.8893** | **0.0234** | **0.9127** | | **3,211.0949** | **3,211.0949** | **0.0921** | | **3,213.3971** |

## 3.11 Phase 2 Building Construction - 2020

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.5114 | 6.7479 | 8.5312 | 0.0132 | | 0.4114 | 0.4114 | | 0.4114 | 0.4114 | 0.0000 | 1,238.8785 | 1,238.8785 | 0.2485 | | 1,245.0920 |
| **Total** | **0.5114** | **6.7479** | **8.5312** | **0.0132** | | **0.4114** | **0.4114** | | **0.4114** | **0.4114** | **0.0000** | **1,238.8785** | **1,238.8785** | **0.2485** | | **1,245.0920** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.2270 | 6.9185 | 1.8387 | 0.0165 | 0.4224 | 0.0348 | 0.4572 | 0.1216 | 0.0333 | 0.1549 | | 1,758.9845 | 1,758.9845 | 0.1221 | | 1,762.0380 |
| Worker | 0.4935 | 0.3330 | 3.6809 | 0.0107 | 1.1178 | 8.4800e-003 | 1.1262 | 0.2964 | 7.8100e-003 | 0.3043 | | 1,070.3650 | 1,070.3650 | 0.0307 | | 1,071.1324 |
| **Total** | **0.7205** | **7.2516** | **5.5195** | **0.0272** | **1.5402** | **0.0433** | **1.5835** | **0.4181** | **0.0411** | **0.4592** | | **2,829.3495** | **2,829.3495** | **0.1528** | | **2,833.1704** |

## 3.11 Phase 2 Building Construction - 2021

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.4818 | 6.7011 | 8.4951 | 0.0132 | | 0.4018 | 0.4018 | | 0.4018 | 0.4018 | 0.0000 | 1,238.9518 | 1,238.9518 | 0.2434 | | 1,245.0357 |
| **Total** | **0.4818** | **6.7011** | **8.4951** | **0.0132** | | **0.4018** | **0.4018** | | **0.4018** | **0.4018** | **0.0000** | **1,238.9518** | **1,238.9518** | **0.2434** | | **1,245.0357** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1933 | 6.2748 | 1.6716 | 0.0164 | 0.4224 | 0.0131 | 0.4355 | 0.1216 | 0.0125 | 0.1341 | | 1,746.0313 | 1,746.0313 | 0.1168 | | 1,748.9519 |
| Worker | 0.4612 | 0.2997 | 3.3854 | 0.0104 | 1.1178 | 8.2300e-003 | 1.1260 | 0.2964 | 7.5800e-003 | 0.3040 | | 1,035.6679 | 1,035.6679 | 0.0278 | | 1,036.3618 |
| **Total** | **0.6545** | **6.5745** | **5.0570** | **0.0268** | **1.5402** | **0.0213** | **1.5615** | **0.4181** | **0.0201** | **0.4381** | | **2,781.6991** | **2,781.6991** | **0.1446** | | **2,785.3136** |

## 3.11 Phase 2 Building Construction - 2022

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.4623 | 6.6666 | 8.4778 | 0.0132 | | 0.3941 | 0.3941 | | 0.3941 | 0.3941 | 0.0000 | 1,239.2517 | 1,239.2517 | 0.2402 | | 1,245.2559 |
| **Total** | **0.4623** | **6.6666** | **8.4778** | **0.0132** | | **0.3941** | **0.3941** | | **0.3941** | **0.3941** | **0.0000** | **1,239.2517** | **1,239.2517** | **0.2402** | | **1,245.2559** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1814 | 5.9513 | 1.5807 | 0.0162 | 0.4224 | 0.0113 | 0.4338 | 0.1216 | 0.0109 | 0.1325 | | 1,730.4819 | 1,730.4819 | 0.1124 | | 1,733.2915 |
| Worker | 0.4337 | 0.2706 | 3.1247 | 0.0100 | 1.1178 | 7.9900e-003 | 1.1258 | 0.2964 | 7.3600e-003 | 0.3038 | | 998.5365 | 998.5365 | 0.0251 | | 999.1632 |
| **Total** | **0.6151** | **6.2220** | **4.7054** | **0.0262** | **1.5402** | **0.0193** | **1.5595** | **0.4181** | **0.0182** | **0.4363** | | **2,729.0184** | **2,729.0184** | **0.1375** | | **2,732.4547** |

## 3.12 Phase 2 Architectural Coating - 2022

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 15.2295 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0594 | 1.3570 | 1.8324 | 2.9700e-003 | | 0.0951 | 0.0951 | | 0.0951 | 0.0951 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| **Total** | **15.2889** | **1.3570** | **1.8324** | **2.9700e-003** | | **0.0951** | **0.0951** | | **0.0951** | **0.0951** | **0.0000** | **281.4481** | **281.4481** | **0.0183** | | **281.9062** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 1.3012 | 0.8119 | 9.3742 | 0.0301 | 3.3533 | 0.0240 | 3.3773 | 0.8893 | 0.0221 | 0.9114 | | 2,995.6096 | 2,995.6096 | 0.0752 | | 2,997.4894 |
| **Total** | **1.3012** | **0.8119** | **9.3742** | **0.0301** | **3.3533** | **0.0240** | **3.3773** | **0.8893** | **0.0221** | **0.9114** | | **2,995.6096** | **2,995.6096** | **0.0752** | | **2,997.4894** |

## 3.13 Phase 3 Demolition - 2022

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.1410 | 0.0000 | 0.1410 | 0.0214 | 0.0000 | 0.0214 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.5659 | 11.6376 | 16.0109 | 0.0249 | | 0.6295 | 0.6295 | | 0.6295 | 0.6295 | 0.0000 | 2,386.9325 | 2,386.9325 | 0.5237 | | 2,400.0256 |
| **Total** | **0.5659** | **11.6376** | **16.0109** | **0.0249** | **0.1410** | **0.6295** | **0.7705** | **0.0214** | **0.6295** | **0.6509** | **0.0000** | **2,386.9325** | **2,386.9325** | **0.5237** | | **2,400.0256** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0299 | 0.9978 | 0.2394 | 3.1300e-003 | 0.0738 | 2.8900e-003 | 0.0767 | 0.0202 | 2.7700e-003 | 0.0230 | | 339.7361 | 339.7361 | 0.0239 | | 340.3334 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 1.3012 | 0.8119 | 9.3742 | 0.0301 | 3.3533 | 0.0240 | 3.3773 | 0.8893 | 0.0221 | 0.9114 | | 2,995.6096 | 2,995.6096 | 0.0752 | | 2,997.4894 |
| **Total** | **1.3311** | **1.8097** | **9.6136** | **0.0332** | **3.4271** | **0.0269** | **3.4540** | **0.9095** | **0.0249** | **0.9344** | | **3,335.3457** | **3,335.3457** | **0.0991** | | **3,337.8228** |

## 3.14 Phase 3 Paving - 2022

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.5609 | 11.2952 | 17.2957 | 0.0228 | | 0.6093 | 0.6093 | | 0.6093 | 0.6093 | 0.0000 | 2,207.6603 | 2,207.6603 | 0.7140 | | 2,225.5104 |
| Paving | 0.1084 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.6693** | **11.2952** | **17.2957** | **0.0228** | | **0.6093** | **0.6093** | | **0.6093** | **0.6093** | **0.0000** | **2,207.6603** | **2,207.6603** | **0.7140** | | **2,225.5104** |

## Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.4337 | 0.2706 | 3.1247 | 0.0100 | 1.1178 | 7.9900e-003 | 1.1258 | 0.2964 | 7.3600e-003 | 0.3038 | | 998.5365 | 998.5365 | 0.0251 | | 999.1632 |
| **Total** | **0.4337** | **0.2706** | **3.1247** | **0.0100** | **1.1178** | **7.9900e-003** | **1.1258** | **0.2964** | **7.3600e-003** | **0.3038** | | **998.5365** | **998.5365** | **0.0251** | | **999.1632** |

# APPENDIX B

## Greenhouse Gas Emissions Calculation Worksheets

ESA

# Emissions Summary

**San Pedro High School Comprehensive Modernization Project**
**Construction GHG Emissions**

| Year | $MTCO_2e/yr$ |
|---|---|
| 2020 | 1269 |
| 2021 | 882 |
| 2022 | 624 |
| Total | 2774 |
| **30-Year Amortization** | **92** |

# CalEEMod Annual Output

# LAUSD San Pedro High School Modernization

**South Coast AQMD Air District, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| High School | 2,700.00 | Student | 22.90 | 358,184.64 | 0 |
| Parking Lot | 39.80 | 1000sqft | 0.91 | 39,800.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 31 |
| **Climate Zone** | 11 | | | **Operational Year** | 2020 |
| **Utility Company** | Los Angeles Department of Water & Power | | | | |
| **CO2 Intensity (lb/MWhr)** | 1227.89 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project Specific Information

Construction Phase - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Demolition -

Off-road Equipment -

Grading -

Trips and VMT - Project Specific Information

Construction Off-road Equipment Mitigation - Project Specific Information

Architectural Coating - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 179,092.00 | 35,243.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 179,092.00 | 20,420.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 537,277.00 | 105,729.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 537,277.00 | 61,260.00 |
| tblArchitecturalCoating | ConstArea_Parking | 2,388.00 | 1,844.00 |
| tblArchitecturalCoating | ConstArea_Parking | 2,388.00 | 464.00 |
| tblArchitecturalCoating | PhaseName | Phase 1 A Architectural Coating | Phase 1A Architectural Coating |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |

| | | | |
|---|---|---|---|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
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| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
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| tblConstructionPhase | NumDays | 35.00 | 45.00 |
| tblConstructionPhase | NumDays | 370.00 | 325.00 |
| tblConstructionPhase | NumDays | 35.00 | 45.00 |
| tblConstructionPhase | NumDays | 370.00 | 40.00 |
| tblConstructionPhase | NumDays | 20.00 | 30.00 |
| tblConstructionPhase | NumDays | 35.00 | 45.00 |
| tblConstructionPhase | NumDays | 20.00 | 35.00 |
| tblConstructionPhase | NumDays | 370.00 | 459.00 |
| tblConstructionPhase | NumDays | 20.00 | 21.00 |

| | | | |
|---|---|---|---|
| tblConstructionPhase | NumDays | 20.00 | 25.00 |
| tblConstructionPhase | NumDays | 20.00 | 121.00 |
| tblConstructionPhase | NumDays | 20.00 | 22.00 |
| tblDemolition | PhaseName | Phase 1 A Demolition | Phase 1A Demolition |
| tblGrading | PhaseName | Phase 1 A Grading/Modernization | Phase 1A Grading/Modernization |
| tblGrading | PhaseName | Phase 1 B Grading/Modernization | Phase 1B Grading/Modernization |
| tblLandUse | LotAcreage | 8.22 | 22.90 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
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| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
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| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
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| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |
| tblOffRoadEquipment | PhaseName | Phase 1 A Architectural Coating | Phase 1A Architectural Coating |
| tblOffRoadEquipment | PhaseName | Phase 1 A Demolition | Phase 1A Demolition |

| | | | |
|---|---|---|---|
| tblOffRoadEquipment | PhaseName | Phase 1 A Building Construction | Phase 1A Building Construction |
| tblOffRoadEquipment | PhaseName | Phase 1 B Building Construction | Phase 1B Building Construction |
| tblOffRoadEquipment | PhaseName | Phase 1 A Demolition | Phase 1A Demolition |
| tblOffRoadEquipment | PhaseName | Phase 1 A Building Construction | Phase 1A Building Construction |
| tblOffRoadEquipment | PhaseName | Phase 1 B Building Construction | Phase 1B Building Construction |
| tblOffRoadEquipment | PhaseName | Phase 1 A Building Construction | Phase 1A Building Construction |
| tblOffRoadEquipment | PhaseName | Phase 1 B Building Construction | Phase 1B Building Construction |
| tblOffRoadEquipment | PhaseName | Phase 1 A Grading/Modernization | Phase 1A Grading/Modernization |
| tblOffRoadEquipment | PhaseName | Phase 1 B Grading/Modernization | Phase 1B Grading/Modernization |
| tblOffRoadEquipment | PhaseName | Phase 1 B Paving | Phase 1B Paving |
| tblOffRoadEquipment | PhaseName | Phase 1 B Paving | Phase 1B Paving |
| tblOffRoadEquipment | PhaseName | Phase 1 B Paving | Phase 1B Paving |
| tblOffRoadEquipment | PhaseName | Phase 1 A Demolition | Phase 1A Demolition |
| tblOffRoadEquipment | PhaseName | Phase 1 A Grading/Modernization | Phase 1A Grading/Modernization |
| tblOffRoadEquipment | PhaseName | Phase 1 B Grading/Modernization | Phase 1B Grading/Modernization |
| tblOffRoadEquipment | PhaseName | Phase 1 A Building Construction | Phase 1A Building Construction |
| tblOffRoadEquipment | PhaseName | Phase 1 B Building Construction | Phase 1B Building Construction |
| tblOffRoadEquipment | PhaseName | Phase 1 A Grading/Modernization | Phase 1A Grading/Modernization |
| tblOffRoadEquipment | PhaseName | Phase 1 B Grading/Modernization | Phase 1B Grading/Modernization |
| tblOffRoadEquipment | PhaseName | Phase 1 A Building Construction | Phase 1A Building Construction |
| tblOffRoadEquipment | PhaseName | Phase 1 B Building Construction | Phase 1B Building Construction |
| tblOffRoadEquipment | PhaseName | | Phase 1A Demolition |
| tblOffRoadEquipment | PhaseName | | Phase 3 Demolition |
| tblOffRoadEquipment | PhaseName | | Phase 2 Demolition |
| tblOffRoadEquipment | PhaseName | | Phase 1A Demolition |
| tblOffRoadEquipment | PhaseName | | Phase 3 Demolition |
| tblOffRoadEquipment | PhaseName | | Phase 2 Demolition |
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| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |

| | | | |
|---|---|---|---|
| tblOffRoadEquipment | UsageHours | 7.00 | 4.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 4.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 4.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
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| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 6.00 |
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| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
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| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |

| | | | |
|---|---|---|---|
| tblOnRoadDust | PhaseName | Phase 1 A Demolition | Phase 1A Demolition |
| tblOnRoadDust | PhaseName | Phase 1 A Architectural Coating | Phase 1A Architectural Coating |
| tblOnRoadDust | PhaseName | Phase 1 A Grading/Modernization | Phase 1A Grading/Modernization |
| tblOnRoadDust | PhaseName | Phase 1 B Grading/Modernization | Phase 1B Grading/Modernization |
| tblOnRoadDust | PhaseName | Phase 1 A Building Construction | Phase 1A Building Construction |
| tblOnRoadDust | PhaseName | Phase 1 B Building Construction | Phase 1B Building Construction |
| tblOnRoadDust | PhaseName | Phase 1 B Paving | Phase 1B Paving |
| tblTripsAndVMT | HaulingTripNumber | 282.00 | 712.00 |
| tblTripsAndVMT | HaulingTripNumber | 490.00 | 1,239.00 |
| tblTripsAndVMT | HaulingTripNumber | 202.00 | 511.00 |
| tblTripsAndVMT | PhaseName | Phase 1 A Demolition | Phase 1A Demolition |
| tblTripsAndVMT | PhaseName | Phase 1 A Architectural Coating | Phase 1A Architectural Coating |
| tblTripsAndVMT | PhaseName | Phase 1 A Grading/Modernization | Phase 1A Grading/Modernization |
| tblTripsAndVMT | PhaseName | Phase 1 B Grading/Modernization | Phase 1B Grading/Modernization |
| tblTripsAndVMT | PhaseName | Phase 1 A Building Construction | Phase 1A Building Construction |
| tblTripsAndVMT | PhaseName | Phase 1 B Building Construction | Phase 1B Building Construction |
| tblTripsAndVMT | PhaseName | Phase 1 B Paving | Phase 1B Paving |
| tblTripsAndVMT | VendorTripNumber | 65.00 | 76.00 |
| tblTripsAndVMT | VendorTripNumber | 65.00 | 66.00 |
| tblTripsAndVMT | WorkerTripNumber | 13.00 | 100.00 |
| tblTripsAndVMT | WorkerTripNumber | 8.00 | 100.00 |
| tblTripsAndVMT | WorkerTripNumber | 167.00 | 300.00 |
| tblTripsAndVMT | WorkerTripNumber | 8.00 | 100.00 |
| tblTripsAndVMT | WorkerTripNumber | 167.00 | 300.00 |
| tblTripsAndVMT | WorkerTripNumber | 13.00 | 300.00 |
| tblTripsAndVMT | WorkerTripNumber | 8.00 | 300.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 300.00 |
| tblTripsAndVMT | WorkerTripNumber | 167.00 | 100.00 |
| tblTripsAndVMT | WorkerTripNumber | 33.00 | 300.00 |
| tblTripsAndVMT | WorkerTripNumber | 33.00 | 300.00 |

| | | | |
|---|---|---|---|
| tblTripsAndVMT | WorkerTripNumber | 13.00 | 300.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 100.00 |

# 2.0 Emissions Summary

## 2.1 Overall Construction

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2020 | 0.4384 | 3.5392 | 5.1659 | 0.0139 | 0.9083 | 0.1209 | 1.0293 | 0.2713 | 0.1202 | 0.3915 | 0.0000 | 1,265.6338 | 1,265.6338 | 0.1232 | 0.0000 | 1,268.7133 |
| 2021 | 0.6121 | 2.6834 | 3.2423 | 9.6600e-003 | 0.4745 | 0.0852 | 0.5597 | 0.1279 | 0.0849 | 0.2127 | 0.0000 | 879.8093 | 879.8093 | 0.0725 | 0.0000 | 881.6222 |
| 2022 | 0.3909 | 1.8093 | 2.7867 | 6.9000e-003 | 0.3629 | 0.0747 | 0.4375 | 0.0961 | 0.0744 | 0.1705 | 0.0000 | 621.9619 | 621.9619 | 0.0646 | 0.0000 | 623.5757 |
| **Maximum** | **0.6121** | **3.5392** | **5.1659** | **0.0139** | **0.9083** | **0.1209** | **1.0293** | **0.2713** | **0.1202** | **0.3915** | **0.0000** | **1,265.6338** | **1,265.6338** | **0.1232** | **0.0000** | **1,268.7133** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **21.48** | **17.70** | **-6.53** | **0.00** | **13.25** | **18.18** | **13.97** | **18.68** | **13.83** | **16.99** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---|---|---|---|---|
| **1** | **1-1-2020** | **3-31-2020** | 0.7097 | 0.4096 |
| **2** | **4-1-2020** | **6-30-2020** | 1.3803 | 0.9993 |
| **3** | **7-1-2020** | **9-30-2020** | 1.9449 | 1.4645 |
| **4** | **10-1-2020** | **12-31-2020** | 1.2372 | 1.0517 |
| **5** | **1-1-2021** | **3-31-2021** | 1.1004 | 0.9722 |
| **6** | **4-1-2021** | **6-30-2021** | 1.1048 | 0.9753 |
| **7** | **7-1-2021** | **9-30-2021** | 0.9286 | 0.8582 |
| **8** | **10-1-2021** | **12-31-2021** | 0.5390 | 0.4735 |
| **9** | **1-1-2022** | **3-31-2022** | 0.4860 | 0.4489 |
| **10** | **4-1-2022** | **6-30-2022** | 0.7112 | 0.6451 |

| | | | | |
|---|---|---|---|---|
| 11 | 7-1-2022 | 9-30-2022 | 0.7827 | 0.6238 |
| | | Highest | 1.9449 | 1.4645 |

## 3.0 Construction Detail

### Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Phase 1A Demolition | Demolition | 1/1/2020 | 1/31/2020 | 5 | 23 | 11 |
| 2 | Phase 1A Grading/Modernization | Grading | 2/1/2020 | 4/5/2020 | 5 | 45 | 12 |
| 3 | Phase 1A Building Construction | Building Construction | 4/6/2020 | 7/2/2021 | 5 | 325 | 13 |
| 4 | Phase 1A Architectural Coating | Architectural Coating | 7/2/2021 | 7/31/2021 | 5 | 21 | 14 |
| 5 | Phase 1B Grading/Modernization | Grading | 4/6/2020 | 6/5/2020 | 5 | 45 | 15 |
| 6 | Phase 1B Building Construction | Building Construction | 6/6/2020 | 7/31/2020 | 5 | 40 | 16 |
| 7 | Phase 1B Paving | Paving | 8/1/2020 | 9/20/2020 | 5 | 35 | 17 |
| 8 | Phase 2 Demolition | Demolition | 6/15/2020 | 7/25/2020 | 5 | 30 | 18 |
| 9 | Phase 2 Grading/Modernization | Grading | 7/26/2020 | 9/25/2020 | 5 | 45 | 19 |
| 10 | Phase 2 Building Construction | Building Construction | 9/26/2020 | 6/30/2022 | 5 | 459 | 20 |
| 11 | Phase 2 Architectural Coating | Architectural Coating | 6/15/2022 | 7/19/2022 | 5 | 25 | 21 |
| 12 | Phase 3 Demolition | Demolition | 6/15/2022 | 11/30/2022 | 5 | 121 | 22 |
| 13 | Phase 3 Paving | Paving | 12/1/2022 | 12/31/2022 | 5 | 22 | 23 |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0.91**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 105,729; Non-Residential Outdoor: 35,243; Striped Parking Area:**

## OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Phase 1A Demolition | Concrete/Industrial Saws | 1 | 6.00 | 81 | 0.73 |
| Phase 1A Demolition | Crushing/Proc. Equipment | 1 | 6.00 | 85 | 0.78 |
| Phase 1A Demolition | Excavators | 1 | 6.00 | 158 | 0.38 |
| Phase 1A Demolition | Other Construction Equipment | 1 | 6.00 | 172 | 0.42 |
| Phase 1A Demolition | Rubber Tired Dozers | 1 | 6.00 | 247 | 0.40 |
| Phase 1A Grading/Modernization | Graders | 1 | 6.00 | 187 | 0.41 |
| Phase 1A Grading/Modernization | Rubber Tired Dozers | 1 | 6.00 | 247 | 0.40 |
| Phase 1A Grading/Modernization | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Phase 1A Building Construction | Cranes | 1 | 4.00 | 231 | 0.29 |
| Phase 1A Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Phase 1A Building Construction | Generator Sets | 1 | 6.00 | 84 | 0.74 |
| Phase 1A Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Phase 1A Building Construction | Welders | 1 | 6.00 | 46 | 0.45 |
| Phase 1B Grading/Modernization | Graders | 1 | 6.00 | 187 | 0.41 |
| Phase 1B Grading/Modernization | Rubber Tired Dozers | 1 | 6.00 | 247 | 0.40 |
| Phase 1B Grading/Modernization | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Phase 1B Building Construction | Cranes | 1 | 4.00 | 231 | 0.29 |
| Phase 1B Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Phase 1B Building Construction | Generator Sets | 1 | 6.00 | 84 | 0.74 |
| Phase 1B Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Phase 1B Building Construction | Welders | 1 | 6.00 | 46 | 0.45 |
| Phase 2 Demolition | Concrete/Industrial Saws | 1 | 6.00 | 81 | 0.73 |
| Phase 2 Demolition | Crushing/Proc. Equipment | 1 | 6.00 | 85 | 0.78 |
| Phase 2 Demolition | Excavators | 1 | 6.00 | 158 | 0.38 |
| Phase 2 Demolition | Other Construction Equipment | 1 | 6.00 | 172 | 0.42 |
| Phase 2 Demolition | Rubber Tired Dozers | 1 | 6.00 | 247 | 0.40 |
| Phase 2 Grading/Modernization | Graders | 1 | 6.00 | 187 | 0.41 |

| | | | | | |
|---|---|---|---|---|---|
| Phase 2 Grading/Modernization | Rubber Tired Dozers | 1 | 6.00 | 247 | 0.40 |
| Phase 2 Grading/Modernization | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Phase 1B Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Phase 1B Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Phase 1B Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Phase 2 Building Construction | Cranes | 1 | 4.00 | 231 | 0.29 |
| Phase 2 Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Phase 2 Building Construction | Generator Sets | 1 | 6.00 | 84 | 0.74 |
| Phase 2 Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Phase 2 Building Construction | Welders | 1 | 6.00 | 46 | 0.45 |
| Phase 1A Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Phase 2 Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Phase 3 Demolition | Concrete/Industrial Saws | 1 | 6.00 | 81 | 0.73 |
| Phase 3 Demolition | Crushing/Proc. Equipment | 1 | 6.00 | 85 | 0.78 |
| Phase 3 Demolition | Excavators | 1 | 6.00 | 158 | 0.38 |
| Phase 3 Demolition | Other Construction Equipment | 1 | 6.00 | 172 | 0.42 |
| Phase 3 Demolition | Rubber Tired Dozers | 1 | 6.00 | 247 | 0.40 |
| Phase 3 Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Phase 3 Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Phase 3 Paving | Rollers | 2 | 8.00 | 80 | 0.38 |

## Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Phase 1A Demolition | 5 | 100.00 | 0.00 | 712.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 1A Grading/Modernization | 3 | 100.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 1A Building Construction | 5 | 300.00 | 65.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 1B Grading/Modernization | 3 | 100.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 1B Building Construction | 5 | 300.00 | 76.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 2 Demolition | 5 | 300.00 | 0.00 | 1,239.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Phase 2 Grading/Modernization | 3 | 300.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 1B Paving | 6 | 300.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 2 Building Construction | 5 | 100.00 | 66.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 1A Architectural Coating | 1 | 300.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 2 Architectural Coating | 1 | 300.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 3 Demolition | 5 | 300.00 | 0.00 | 511.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Phase 3 Paving | 6 | 100.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

## 3.2 Phase 1A Demolition - 2020

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0119 | 0.0000 | 0.0119 | 1.8000e-003 | 0.0000 | 1.8000e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 6.5100e-003 | 0.1338 | 0.1841 | 2.9000e-004 | | 7.2400e-003 | 7.2400e-003 | | 7.2400e-003 | 7.2400e-003 | 0.0000 | 24.9089 | 24.9089 | 5.5500e-003 | 0.0000 | 25.0477 |
| **Total** | **6.5100e-003** | **0.1338** | **0.1841** | **2.9000e-004** | **0.0119** | **7.2400e-003** | **0.0191** | **1.8000e-003** | **7.2400e-003** | **9.0400e-003** | **0.0000** | **24.9089** | **24.9089** | **5.5500e-003** | **0.0000** | **25.0477** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 2.7400e-003 | 0.0999 | 0.0199 | 2.7000e-004 | 6.1200e-003 | 3.1000e-004 | 6.4400e-003 | 1.6800e-003 | 3.0000e-004 | 1.9800e-003 | 0.0000 | 26.8652 | 26.8652 | 1.8500e-003 | 0.0000 | 26.9115 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 5.1300e-003 | 3.9400e-003 | 0.0436 | 1.3000e-004 | 0.0126 | 1.0000e-004 | 0.0127 | 3.3500e-003 | 9.0000e-005 | 3.4400e-003 | 0.0000 | 11.3582 | 11.3582 | 3.3000e-004 | 0.0000 | 11.3663 |
| **Total** | **7.8700e-003** | **0.1038** | **0.0635** | **4.0000e-004** | **0.0187** | **4.1000e-004** | **0.0192** | **5.0300e-003** | **3.9000e-004** | **5.4200e-003** | **0.0000** | **38.2233** | **38.2233** | **2.1800e-003** | **0.0000** | **38.2778** |

## 3.3 Phase 1A Grading/Modernization - 2020

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0431 | 0.0000 | 0.0431 | 0.0222 | 0.0000 | 0.0222 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.5500e-003 | 0.1504 | 0.1753 | 3.1000e-004 | | 6.6500e-003 | 6.6500e-003 | | 6.6500e-003 | 6.6500e-003 | 0.0000 | 27.1091 | 27.1091 | 8.7700e-003 | 0.0000 | 27.3283 |
| **Total** | **7.5500e-003** | **0.1504** | **0.1753** | **3.1000e-004** | **0.0431** | **6.6500e-003** | **0.0498** | **0.0222** | **6.6500e-003** | **0.0288** | **0.0000** | **27.1091** | **27.1091** | **8.7700e-003** | **0.0000** | **27.3283** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0100 | 7.7000e-003 | 0.0852 | 2.5000e-004 | 0.0247 | 1.9000e-004 | 0.0249 | 6.5600e-003 | 1.8000e-004 | 6.7300e-003 | 0.0000 | 22.2225 | 22.2225 | 6.4000e-004 | 0.0000 | 22.2384 |
| **Total** | **0.0100** | **7.7000e-003** | **0.0852** | **2.5000e-004** | **0.0247** | **1.9000e-004** | **0.0249** | **6.5600e-003** | **1.8000e-004** | **6.7300e-003** | **0.0000** | **22.2225** | **22.2225** | **6.4000e-004** | **0.0000** | **22.2384** |

## 3.4 Phase 1A Building Construction - 2020

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0496 | 0.6546 | 0.8275 | 1.2800e-003 | | 0.0399 | 0.0399 | | 0.0399 | 0.0399 | 0.0000 | 109.0174 | 109.0174 | 0.0219 | 0.0000 | 109.5641 |
| **Total** | **0.0496** | **0.6546** | **0.8275** | **1.2800e-003** | | **0.0399** | **0.0399** | | **0.0399** | **0.0399** | **0.0000** | **109.0174** | **109.0174** | **0.0219** | **0.0000** | **109.5641** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0211 | 0.6729 | 0.1667 | 1.6000e-003 | 0.0397 | 3.3000e-003 | 0.0430 | 0.0115 | 3.1600e-003 | 0.0146 | 0.0000 | 155.0727 | 155.0727 | 0.0102 | 0.0000 | 155.3272 |
| Worker | 0.1299 | 0.0996 | 1.1021 | 3.1800e-003 | 0.3193 | 2.4700e-003 | 0.3217 | 0.0848 | 2.2700e-003 | 0.0871 | 0.0000 | 287.4108 | 287.4108 | 8.2500e-003 | 0.0000 | 287.6170 |
| **Total** | **0.1510** | **0.7725** | **1.2688** | **4.7800e-003** | **0.3590** | **5.7700e-003** | **0.3648** | **0.0963** | **5.4300e-003** | **0.1017** | **0.0000** | **442.4835** | **442.4835** | **0.0184** | **0.0000** | **442.9442** |

## 3.4 Phase 1A Building Construction - 2021

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0316 | 0.4389 | 0.5564 | 8.7000e-004 | | 0.0263 | 0.0263 | | 0.0263 | 0.0263 | 0.0000 | 73.6192 | 73.6192 | 0.0145 | 0.0000 | 73.9807 |
| **Total** | **0.0316** | **0.4389** | **0.5564** | **8.7000e-004** | | **0.0263** | **0.0263** | | **0.0263** | **0.0263** | **0.0000** | **73.6192** | **73.6192** | **0.0145** | **0.0000** | **73.9807** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0121 | 0.4120 | 0.1021 | 1.0700e-003 | 0.0268 | 8.3000e-004 | 0.0277 | 7.7400e-003 | 7.9000e-004 | 8.5400e-003 | 0.0000 | 103.9454 | 103.9454 | 6.5700e-003 | 0.0000 | 104.1097 |
| Worker | 0.0819 | 0.0605 | 0.6848 | 2.0800e-003 | 0.2156 | 1.6200e-003 | 0.2172 | 0.0573 | 1.4900e-003 | 0.0587 | 0.0000 | 187.7872 | 187.7872 | 5.0400e-003 | 0.0000 | 187.9131 |
| **Total** | **0.0940** | **0.4725** | **0.7869** | **3.1500e-003** | **0.2424** | **2.4500e-003** | **0.2449** | **0.0650** | **2.2800e-003** | **0.0673** | **0.0000** | **291.7326** | **291.7326** | **0.0116** | **0.0000** | **292.0228** |

## 3.5 Phase 1A Architectural Coating - 2021

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.3310 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 6.2000e-004 | 0.0143 | 0.0192 | 3.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | 0.0000 | 2.6809 | 2.6809 | 1.8000e-004 | 0.0000 | 2.6855 |
| **Total** | **0.3316** | **0.0143** | **0.0192** | **3.0000e-005** | | **1.0000e-003** | **1.0000e-003** | | **1.0000e-003** | **1.0000e-003** | **0.0000** | **2.6809** | **2.6809** | **1.8000e-004** | **0.0000** | **2.6855** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0131 | 9.7000e-003 | 0.1098 | 3.3000e-004 | 0.0346 | 2.6000e-004 | 0.0348 | 9.1800e-003 | 2.4000e-004 | 9.4200e-003 | 0.0000 | 30.1033 | 30.1033 | 8.1000e-004 | 0.0000 | 30.1235 |
| **Total** | **0.0131** | **9.7000e-003** | **0.1098** | **3.3000e-004** | **0.0346** | **2.6000e-004** | **0.0348** | **9.1800e-003** | **2.4000e-004** | **9.4200e-003** | **0.0000** | **30.1033** | **30.1033** | **8.1000e-004** | **0.0000** | **30.1235** |

## 3.6 Phase 1B Grading/Modernization - 2020

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0431 | 0.0000 | 0.0431 | 0.0222 | 0.0000 | 0.0222 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.5500e-003 | 0.1504 | 0.1753 | 3.1000e-004 | | 6.6500e-003 | 6.6500e-003 | | 6.6500e-003 | 6.6500e-003 | 0.0000 | 27.1091 | 27.1091 | 8.7700e-003 | 0.0000 | 27.3283 |
| **Total** | **7.5500e-003** | **0.1504** | **0.1753** | **3.1000e-004** | **0.0431** | **6.6500e-003** | **0.0498** | **0.0222** | **6.6500e-003** | **0.0288** | **0.0000** | **27.1091** | **27.1091** | **8.7700e-003** | **0.0000** | **27.3283** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0100 | 7.7000e-003 | 0.0852 | 2.5000e-004 | 0.0247 | 1.9000e-004 | 0.0249 | 6.5600e-003 | 1.8000e-004 | 6.7300e-003 | 0.0000 | 22.2225 | 22.2225 | 6.4000e-004 | 0.0000 | 22.2384 |
| **Total** | **0.0100** | **7.7000e-003** | **0.0852** | **2.5000e-004** | **0.0247** | **1.9000e-004** | **0.0249** | **6.5600e-003** | **1.8000e-004** | **6.7300e-003** | **0.0000** | **22.2225** | **22.2225** | **6.4000e-004** | **0.0000** | **22.2384** |

## 3.7 Phase 1B Building Construction - 2020

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0102 | 0.1350 | 0.1706 | 2.6000e-004 | | 8.2300e-003 | 8.2300e-003 | | 8.2300e-003 | 8.2300e-003 | 0.0000 | 22.4778 | 22.4778 | 4.5100e-003 | 0.0000 | 22.5905 |
| **Total** | **0.0102** | **0.1350** | **0.1706** | **2.6000e-004** | | **8.2300e-003** | **8.2300e-003** | | **8.2300e-003** | **8.2300e-003** | **0.0000** | **22.4778** | **22.4778** | **4.5100e-003** | **0.0000** | **22.5905** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 5.0900e-003 | 0.1622 | 0.0402 | 3.9000e-004 | 9.5800e-003 | 8.0000e-004 | 0.0104 | 2.7600e-003 | 7.6000e-004 | 3.5300e-003 | 0.0000 | 37.3847 | 37.3847 | 2.4500e-003 | 0.0000 | 37.4460 |
| Worker | 0.0268 | 0.0205 | 0.2272 | 6.6000e-004 | 0.0658 | 5.1000e-004 | 0.0663 | 0.0175 | 4.7000e-004 | 0.0180 | 0.0000 | 59.2600 | 59.2600 | 1.7000e-003 | 0.0000 | 59.3025 |
| **Total** | **0.0319** | **0.1828** | **0.2674** | **1.0500e-003** | **0.0754** | **1.3100e-003** | **0.0767** | **0.0202** | **1.2300e-003** | **0.0215** | **0.0000** | **96.6447** | **96.6447** | **4.1500e-003** | **0.0000** | **96.7485** |

## 3.8 Phase 1B Paving - 2020

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 9.8200e-003 | 0.1977 | 0.3027 | 4.0000e-004 | | 0.0107 | 0.0107 | | 0.0107 | 0.0107 | 0.0000 | 35.0493 | 35.0493 | 0.0113 | 0.0000 | 35.3327 |
| Paving | 1.1900e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0110** | **0.1977** | **0.3027** | **4.0000e-004** | | **0.0107** | **0.0107** | | **0.0107** | **0.0107** | **0.0000** | **35.0493** | **35.0493** | **0.0113** | **0.0000** | **35.3327** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0234 | 0.0180 | 0.1988 | 5.7000e-004 | 0.0576 | 4.5000e-004 | 0.0580 | 0.0153 | 4.1000e-004 | 0.0157 | 0.0000 | 51.8525 | 51.8525 | 1.4900e-003 | 0.0000 | 51.8897 |
| **Total** | **0.0234** | **0.0180** | **0.1988** | **5.7000e-004** | **0.0576** | **4.5000e-004** | **0.0580** | **0.0153** | **4.1000e-004** | **0.0157** | **0.0000** | **51.8525** | **51.8525** | **1.4900e-003** | **0.0000** | **51.8897** |

## 3.9 Phase 2 Demolition - 2020

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0207 | 0.0000 | 0.0207 | 3.1300e-003 | 0.0000 | 3.1300e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 8.4900e-003 | 0.1746 | 0.2402 | 3.7000e-004 | | 9.4400e-003 | 9.4400e-003 | | 9.4400e-003 | 9.4400e-003 | 0.0000 | 32.4898 | 32.4898 | 7.2400e-003 | 0.0000 | 32.6709 |
| **Total** | **8.4900e-003** | **0.1746** | **0.2402** | **3.7000e-004** | **0.0207** | **9.4400e-003** | **0.0301** | **3.1300e-003** | **9.4400e-003** | **0.0126** | **0.0000** | **32.4898** | **32.4898** | **7.2400e-003** | **0.0000** | **32.6709** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 4.7600e-003 | 0.1738 | 0.0347 | 4.8000e-004 | 0.0107 | 5.5000e-004 | 0.0112 | 2.9200e-003 | 5.2000e-004 | 3.4500e-003 | 0.0000 | 46.7499 | 46.7499 | 3.2200e-003 | 0.0000 | 46.8305 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0201 | 0.0154 | 0.1704 | 4.9000e-004 | 0.0494 | 3.8000e-004 | 0.0498 | 0.0131 | 3.5000e-004 | 0.0135 | 0.0000 | 44.4450 | 44.4450 | 1.2800e-003 | 0.0000 | 44.4769 |
| **Total** | **0.0249** | **0.1892** | **0.2051** | **9.7000e-004** | **0.0600** | **9.3000e-004** | **0.0610** | **0.0160** | **8.7000e-004** | **0.0169** | **0.0000** | **91.1949** | **91.1949** | **4.5000e-003** | **0.0000** | **91.3073** |

## 3.10 Phase 2 Grading/Modernization - 2020

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0431 | 0.0000 | 0.0431 | 0.0222 | 0.0000 | 0.0222 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.5500e-003 | 0.1504 | 0.1753 | 3.1000e-004 | | 6.6500e-003 | 6.6500e-003 | | 6.6500e-003 | 6.6500e-003 | 0.0000 | 27.1091 | 27.1091 | 8.7700e-003 | 0.0000 | 27.3283 |
| **Total** | **7.5500e-003** | **0.1504** | **0.1753** | **3.1000e-004** | **0.0431** | **6.6500e-003** | **0.0498** | **0.0222** | **6.6500e-003** | **0.0288** | **0.0000** | **27.1091** | **27.1091** | **8.7700e-003** | **0.0000** | **27.3283** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0301 | 0.0231 | 0.2556 | 7.4000e-004 | 0.0741 | 5.7000e-004 | 0.0746 | 0.0197 | 5.3000e-004 | 0.0202 | 0.0000 | 66.6675 | 66.6675 | 1.9100e-003 | 0.0000 | 66.7153 |
| **Total** | **0.0301** | **0.0231** | **0.2556** | **7.4000e-004** | **0.0741** | **5.7000e-004** | **0.0746** | **0.0197** | **5.3000e-004** | **0.0202** | **0.0000** | **66.6675** | **66.6675** | **1.9100e-003** | **0.0000** | **66.7153** |

## 3.11 Phase 2 Building Construction - 2020

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0176 | 0.2328 | 0.2943 | 4.6000e-004 | | 0.0142 | 0.0142 | | 0.0142 | 0.0142 | 0.0000 | 38.7742 | 38.7742 | 7.7800e-003 | 0.0000 | 38.9687 |
| **Total** | **0.0176** | **0.2328** | **0.2943** | **4.6000e-004** | | **0.0142** | **0.0142** | | **0.0142** | **0.0142** | **0.0000** | **38.7742** | **38.7742** | **7.7800e-003** | **0.0000** | **38.9687** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 7.6300e-003 | 0.2430 | 0.0602 | 5.8000e-004 | 0.0144 | 1.1900e-003 | 0.0155 | 4.1400e-003 | 1.1400e-003 | 5.2800e-003 | 0.0000 | 56.0033 | 56.0033 | 3.6800e-003 | 0.0000 | 56.0952 |
| Worker | 0.0154 | 0.0118 | 0.1307 | 3.8000e-004 | 0.0379 | 2.9000e-004 | 0.0381 | 0.0101 | 2.7000e-004 | 0.0103 | 0.0000 | 34.0745 | 34.0745 | 9.8000e-004 | 0.0000 | 34.0989 |
| **Total** | **0.0230** | **0.2548** | **0.1909** | **9.6000e-004** | **0.0522** | **1.4800e-003** | **0.0537** | **0.0142** | **1.4100e-003** | **0.0156** | **0.0000** | **90.0777** | **90.0777** | **4.6600e-003** | **0.0000** | **90.1941** |

## 3.11 Phase 2 Building Construction - 2021

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0629 | 0.8745 | 1.1086 | 1.7200e-003 | | 0.0524 | 0.0524 | | 0.0524 | 0.0524 | 0.0000 | 146.6764 | 146.6764 | 0.0288 | 0.0000 | 147.3966 |
| **Total** | **0.0629** | **0.8745** | **1.1086** | **1.7200e-003** | | **0.0524** | **0.0524** | | **0.0524** | **0.0524** | **0.0000** | **146.6764** | **146.6764** | **0.0288** | **0.0000** | **147.3966** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0245 | 0.8334 | 0.2066 | 2.1700e-003 | 0.0543 | 1.6800e-003 | 0.0560 | 0.0157 | 1.6000e-003 | 0.0173 | 0.0000 | 210.2834 | 210.2834 | 0.0133 | 0.0000 | 210.6159 |
| Worker | 0.0544 | 0.0402 | 0.4548 | 1.3800e-003 | 0.1432 | 1.0700e-003 | 0.1443 | 0.0380 | 9.9000e-004 | 0.0390 | 0.0000 | 124.7136 | 124.7136 | 3.3400e-003 | 0.0000 | 124.7973 |
| **Total** | **0.0789** | **0.8736** | **0.6614** | **3.5500e-003** | **0.1975** | **2.7500e-003** | **0.2002** | **0.0537** | **2.5900e-003** | **0.0563** | **0.0000** | **334.9970** | **334.9970** | **0.0166** | **0.0000** | **335.4131** |

## 3.11 Phase 2 Building Construction - 2022

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0298 | 0.4300 | 0.5468 | 8.5000e-004 | | 0.0254 | 0.0254 | | 0.0254 | 0.0254 | 0.0000 | 72.5128 | 72.5128 | 0.0141 | 0.0000 | 72.8641 |
| **Total** | **0.0298** | **0.4300** | **0.5468** | **8.5000e-004** | | **0.0254** | **0.0254** | | **0.0254** | **0.0254** | **0.0000** | **72.5128** | **72.5128** | **0.0141** | **0.0000** | **72.8641** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0114 | 0.3906 | 0.0965 | 1.0600e-003 | 0.0268 | 7.2000e-004 | 0.0276 | 7.7400e-003 | 6.9000e-004 | 8.4300e-003 | 0.0000 | 103.0181 | 103.0181 | 6.3300e-003 | 0.0000 | 103.1762 |
| Worker | 0.0253 | 0.0180 | 0.2075 | 6.6000e-004 | 0.0708 | 5.2000e-004 | 0.0713 | 0.0188 | 4.7000e-004 | 0.0193 | 0.0000 | 59.4301 | 59.4301 | 1.4900e-003 | 0.0000 | 59.4674 |
| **Total** | **0.0366** | **0.4085** | **0.3041** | **1.7200e-003** | **0.0976** | **1.2400e-003** | **0.0988** | **0.0265** | **1.1600e-003** | **0.0277** | **0.0000** | **162.4482** | **162.4482** | **7.8200e-003** | **0.0000** | **162.6436** |

## 3.12 Phase 2 Architectural Coating - 2022

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.1904 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.4000e-004 | 0.0170 | 0.0229 | 4.0000e-005 | | 1.1900e-003 | 1.1900e-003 | | 1.1900e-003 | 1.1900e-003 | 0.0000 | 3.1916 | 3.1916 | 2.1000e-004 | 0.0000 | 3.1968 |
| **Total** | **0.1911** | **0.0170** | **0.0229** | **4.0000e-005** | | **1.1900e-003** | **1.1900e-003** | | **1.1900e-003** | **1.1900e-003** | **0.0000** | **3.1916** | **3.1916** | **2.1000e-004** | **0.0000** | **3.1968** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0147 | 0.0104 | 0.1207 | 3.8000e-004 | 0.0411 | 3.0000e-004 | 0.0414 | 0.0109 | 2.8000e-004 | 0.0112 | 0.0000 | 34.5524 | 34.5524 | 8.7000e-004 | 0.0000 | 34.5741 |
| **Total** | **0.0147** | **0.0104** | **0.1207** | **3.8000e-004** | **0.0411** | **3.0000e-004** | **0.0414** | **0.0109** | **2.8000e-004** | **0.0112** | **0.0000** | **34.5524** | **34.5524** | **8.7000e-004** | **0.0000** | **34.5741** |

## 3.13 Phase 3 Demolition - 2022

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 8.5300e-003 | 0.0000 | 8.5300e-003 | 1.2900e-003 | 0.0000 | 1.2900e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0342 | 0.7041 | 0.9687 | 1.5000e-003 | | 0.0381 | 0.0381 | | 0.0381 | 0.0381 | 0.0000 | 131.0059 | 131.0059 | 0.0287 | 0.0000 | 131.7245 |
| **Total** | **0.0342** | **0.7041** | **0.9687** | **1.5000e-003** | **8.5300e-003** | **0.0381** | **0.0466** | **1.2900e-003** | **0.0381** | **0.0394** | **0.0000** | **131.0059** | **131.0059** | **0.0287** | **0.0000** | **131.7245** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 1.7800e-003 | 0.0615 | 0.0140 | 1.9000e-004 | 4.3900e-003 | 1.7000e-004 | 4.5700e-003 | 1.2100e-003 | 1.7000e-004 | 1.3700e-003 | 0.0000 | 18.8519 | 18.8519 | 1.2800e-003 | 0.0000 | 18.8839 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0710 | 0.0505 | 0.5840 | 1.8500e-003 | 0.1991 | 1.4500e-003 | 0.2006 | 0.0529 | 1.3400e-003 | 0.0542 | 0.0000 | 167.2336 | 167.2336 | 4.2000e-003 | 0.0000 | 167.3386 |
| **Total** | **0.0728** | **0.1120** | **0.5980** | **2.0400e-003** | **0.2035** | **1.6200e-003** | **0.2052** | **0.0541** | **1.5100e-003** | **0.0556** | **0.0000** | **186.0854** | **186.0854** | **5.4800e-003** | **0.0000** | **186.2225** |

## 3.14 Phase 3 Paving - 2022

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 6.1700e-003 | 0.1243 | 0.1903 | 2.5000e-004 | | 6.7000e-003 | 6.7000e-003 | | 6.7000e-003 | 6.7000e-003 | 0.0000 | 22.0303 | 22.0303 | 7.1300e-003 | 0.0000 | 22.2084 |
| Paving | 1.1900e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **7.3600e-003** | **0.1243** | **0.1903** | **2.5000e-004** | | **6.7000e-003** | **6.7000e-003** | | **6.7000e-003** | **6.7000e-003** | **0.0000** | **22.0303** | **22.0303** | **7.1300e-003** | **0.0000** | **22.2084** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.3100e-003 | 3.0600e-003 | 0.0354 | 1.1000e-004 | 0.0121 | 9.0000e-005 | 0.0122 | 3.2100e-003 | 8.0000e-005 | 3.2900e-003 | 0.0000 | 10.1354 | 10.1354 | 2.5000e-004 | 0.0000 | 10.1417 |
| **Total** | **4.3100e-003** | **3.0600e-003** | **0.0354** | **1.1000e-004** | **0.0121** | **9.0000e-005** | **0.0122** | **3.2100e-003** | **8.0000e-005** | **3.2900e-003** | **0.0000** | **10.1354** | **10.1354** | **2.5000e-004** | **0.0000** | **10.1417** |

# Appendix B

## Air Quality and Greenhouse Gas Emissions Technical Report

ESA

# Appendix C
## Historic Resources Technical Report

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# SAN PEDRO HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT

## CEQA Historic Resources Technical Report

Prepared for
Los Angeles Unified School District

May 2018

ESA



# SAN PEDRO HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT

## CEQA Historic Resources Technical Report

Prepared for
Los Angeles Unified School District

May 2018

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# SAN PEDRO HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT

CEQA Historic Resources Technical Report

# 1. Introduction

## 1.1 Purpose and Scope

The Los Angeles Unified School District ("LAUSD" or "District") has retained Environmental Science Associates (ESA) to prepare a California Environmental Quality Act (CEQA) Historic Resources Technical Report (HRTR) for the San Pedro High School Comprehensive Modernization Project (proposed Project). The proposed Project is a site-specific school upgrade and modernization project being completed by LAUSD under the School Upgrade Program (SUP). The SUP Environmental Impact Report (Program EIR) was certified by LAUSD on November 10, 2015.[1] The proposed Project would include the demolition and removal of existing buildings, construction of new facilities, and modernization and seismic upgrade to existing buildings. LAUSD is the lead agency pursuant to CEQA.

In 1994, San Pedro High School was determined eligible for the National Register of Historic Places (National Register) through the Section 106 process and is listed on the California Register of Historical Resources (California Register) because it is associated with noted Los Angeles architect Gordon B. Kaufmann (National Register Criterion B) and embodies the distinctive characteristics of the Streamline Moderne style of academic architecture (Criterion C). Because San Pedro HS is considered a historical resource under CEQA, this HRTR presents ESA's CEQA impacts analysis findings with regard to potential Project impacts to identified historical resources that may be affected by the proposed Project.

## 1.2 Project Team

ESA personnel involved in the preparation of this report are as follows: Johanna Kahn, M.Ar.H.; Chris Taylor, M.H.P.; and Amber Grady, M.A., quality assurance/quality control (QA/QC). Resumes of key personnel are included in **Appendix A**.

[1] Placeworks, School Upgrade Program EIR, June 2014.

# 2. Project Description

## 2.1 Project Location and Site Description

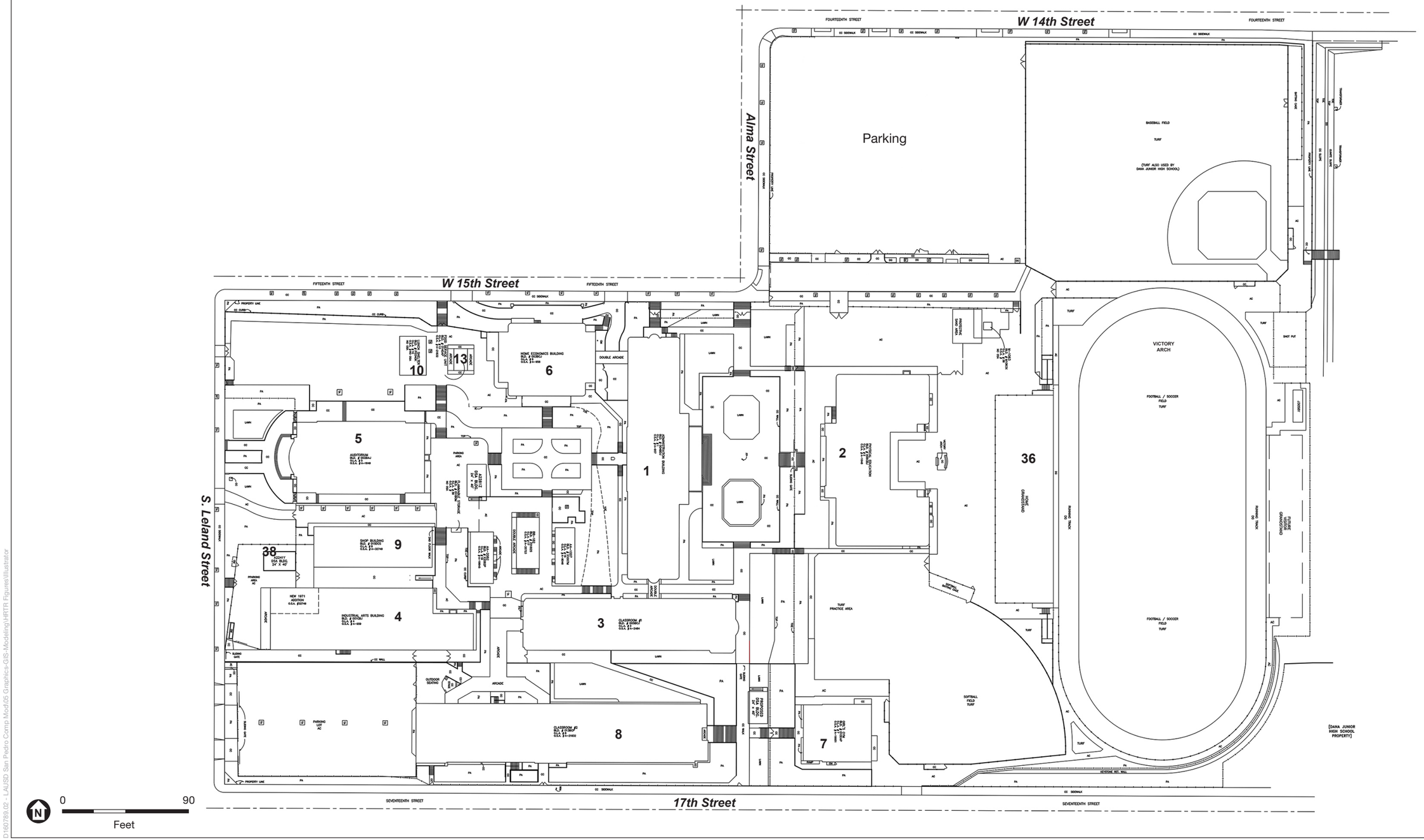
San Pedro High School ("San Pedro HS" or "Campus") is located on a 22.9-acre site in a residential area, approximately 22 miles south of downtown Los Angeles and approximately one mile west of the Port of Los Angeles. Specifically, the campus is located at 1001 West 15th Street within the community of San Pedro. The Campus is bound by West 14th Street and West 15th Street to the north, Dana Middle School to the east, West 17th Street to the south, and South Leland Street and South Alma Street to the west. The Assessor's Parcel Number (APN) for the Project site is 7458-024-918. The Campus is made up of permanent and portable buildings, structures, arcades, and landscape features. San Pedro HS is designed in the Streamline Moderne style, and general CDFs of the Campus include curving forms, long horizontal lines, and smooth exterior walls. The existing Campus site plan is shown in **Figure 1**.

### 2.1.1 Contributing Buildings

As part of a 1994 FEMA survey, San Pedro HS was assigned a California Historical Resource Status Code (CHRSC) of "2S2," which means that the Campus is an "individual property determined eligible for the National Register by a consensus through the Section 106 process [and is] listed in the California Register." For the purposes of the proposed Project and future projects, LAUSD has decided to re-evaluate the Campus as an eligible historic district. By this identification, buildings, structures, and landscape features would either contribute or not contribute to the significance of the San Pedro HS Historic District ("Historic District").

A Character Defining Features Memorandum (CDFM) was prepared in 2015 to facilitate early planning efforts for the site.[2] In the CDFM, buildings, structures, and landscape features were identified as "primary (significant)," "secondary (contributing)," "tertiary (contributing)," and "non-contributing." LAUSD, as the lead agency, has determined that San Pedro HS is recommended eligible as a historic district. The contributors to the Historic District are those buildings and landscape features identified in the CDFM as "primary (significant)," "secondary (contributing)," and "tertiary (contributing)." The contributing buildings and structures are the Administration Building (Building 1), Old Gymnasium/Physical Education Building (Building 2), Classroom Building No. 1 (Building 3), Industrial Arts Building (Building 4), Auditorium (Building 5), Home Economics Building (Building 6), the Victory Arch at the north end of the athletic field. The contributing landscape features include the landscape, hardscape, and stairs found in the central courtyard in front of the Administration Building, a second courtyard at the rear of the Administration Building, landscaping north of the Home Economics Building and the Administration Building fronting West 15th Street, and landscaping and trees in front of (west side) and surrounding the secondary elevations of the Auditorium.

[2] PCR Services Corp. "Character-Defining Features Memorandum (CDFM) for San Pedro High School, 1001 West 15th Street, San Pedro, California, 90731." June 30, 2015.




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SOURCE: Los Angeles Unified School District, 2002

San Pedro High School Comprehensive Modernization Project

**Figure 1**
Site Plan (Existing Conditions)

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The Administration Building (Building 1), Old Gymnasium/Physical Education Building (Building 2), Classroom Building No. 1 (Building 3), and Auditorium (Building 5) are the most architecturally distinctive buildings and, along with the associated landscaping, are essential to conveying the significance of the Historic District. The Home Economics (Building 6) and Industrial Arts (Building 4) buildings (identified in the CDFM as "secondary (contributing)" and "tertiary (contributing)," respectively) were constructed during the period of significance of the Historic District, but are not as visually prominent as those buildings, structures, and landscape features identified in the CDFM as "primary (significant)." Furthermore, the Industrial Arts Building has undergone notable exterior alterations, namely door replacements in 1965 and a rear addition in 1969 that appears highly visible from South Leland Street. For these reasons, the degree to which the Home Economics and Industrial Arts buildings contribute to the Historic District is not commensurate with that of the primary contributors identified in the CDFM.

## 2.2 Scope of Work

The proposed Project would include the demolition and removal of existing buildings, construction of new facilities, and modernization and seismic retrofit of contributing buildings to the Historic District: the Administration Building (Building 1), Classroom Building No. 1, (Building 3), and Home Economics Building (Building 6). The Project also includes less extensive upgrades to other buildings on Campus. Upgrades to the Physical Education Building (Old Gymnasium, a contributor to the Historic District) would include voluntary seismic retrofits and a new wood floor in the main ball court. Upgrades to the Auditorium (a contributor to the Historic District) would be limited to reconditioning of the existing seating and American with Disabilities Act (ADA) improvements. ADA improvements to the Auditorium would include accessible seating as well as accessibility improvements to the main entry, restrooms, and possibly the ticket area. Presented in **Figure 2** is the proposed site plan showing the buildings and landscape features to be retained along with the new construction. ESA reviewed 1) a set of "100% Design Development" drawings dated September 11, 2017, and prepared by LPA Inc., 2) updated site plans and renderings provided at a site walk of the Campus on December 8, 2017, and 3) an additional updated site plan provided on February 23, 2018. Pertinent plans and renderings are excerpted from the various design documents and are included as **Figures 1 to 9** to support the project description. The proposed Project is broken down into three distinct components as described below.

### 2.2.1 Modernization and Seismic Retrofits of Contributing Buildings to the San Pedro HS Historic District

Modernization and/or improvements would be completed for the Administration Building (Building 1), Old Gymnasium/Physical Education Building (Building 2), Classroom Building No. 1 (Building 3), Auditorium (Building 5), and Home Economics Building (Building 6). The focus of the modernization is to address the most critical physical concerns of the school's buildings and grounds and provide facilities that are safe, secure, and aligned with the instructional program at San Pedro HS. The Project will also bring the Campus into compliance with American with Disabilities Act (ADA) standards. The exterior CDFs of the contributing buildings are proposed to be retained and rehabilitated, and these are discussed in detail later in this report. Additionally, the Administration Building, Old Gymnasium/Physical Education Building (Building 2), Classroom Building No. 1 (Building 3), and Home Economics Building (Building 6) would be seismically

retrofitted. The modernization and seismic retrofit of these buildings are described in the following paragraphs.

#### *2.2.1.1 Administration Building (Building 1), Classroom Building No. 1 (Building 3), and Home Economics Building (Building 6)*

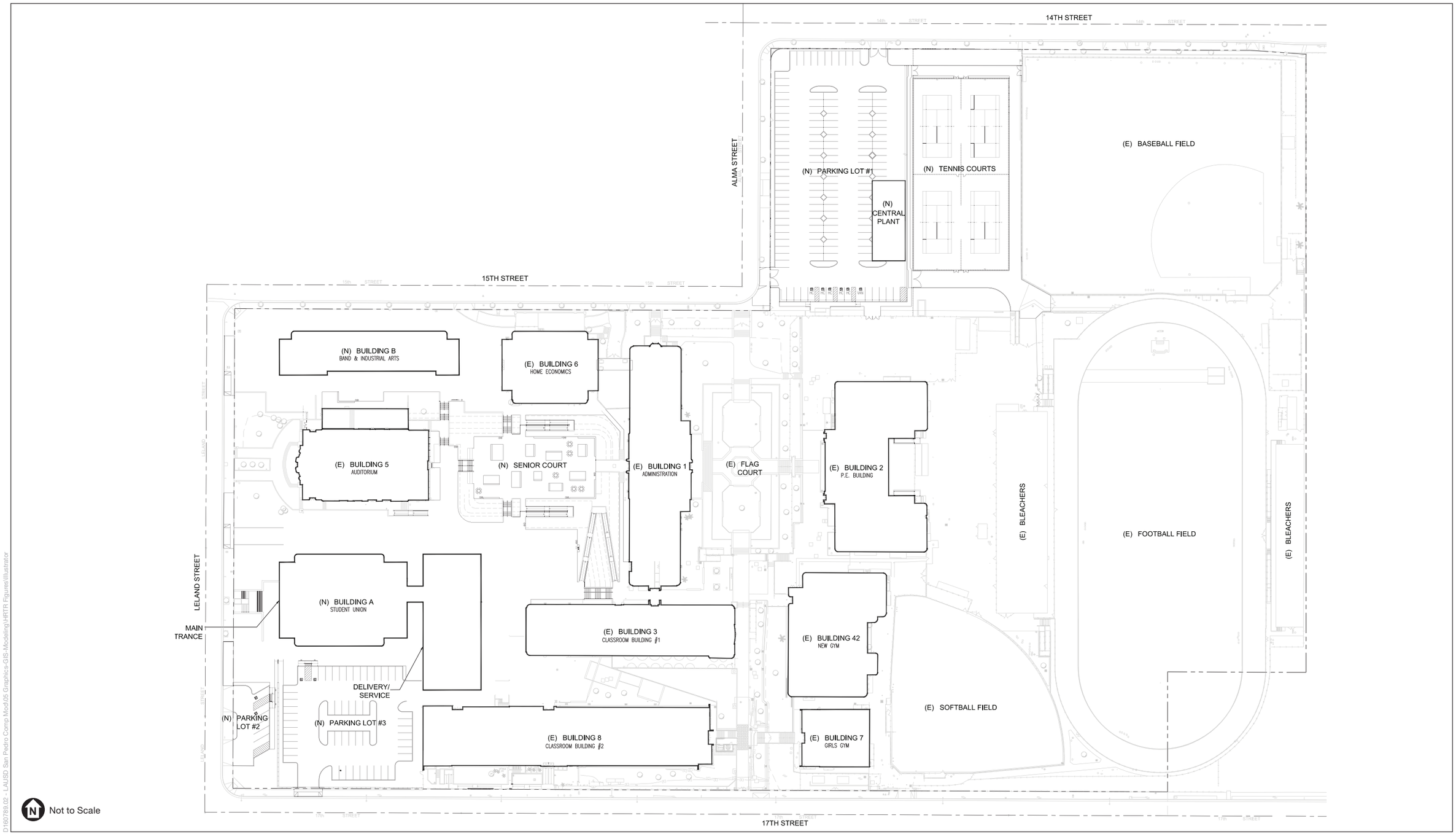
The proposed modifications to interior and exterior spaces of the Administration Building, Classroom Building No. 1, and Home Economics Building are shown in **Figures 3-5** and include:

- While the corridor configuration would remain the same, the classrooms and offices would be resized through the demolition and reconstruction of interior walls on the first and second floors of the Administration Building (Building 1), Classroom Building No. 1 (Building 3), and Home Economics Building (Building 6).
- The basement of the Administration Building (Building 1) would be reconfigured to accommodate new facilities offices and storage space.
- Original stairwells and existing concrete stairs would remain in place in all three buildings.
- Decorative murals located in the second floor library of the Administration Building (Building 1) would be removed, stored, and reinstalled upon completion of retrofit in accordance with a mural conservation plan.
- Breezeway connecting the Administration Building (Building 1) and Classroom Building No. 1 (Building 3), and bridge connecting the Administration Building (Building 1) and Home Economics Building (Building 6) would be retained.
- A canopy would be installed over the bridge connecting the Administration Building (Building 1) and Home Economics Building (Building 6).
- The administration area would move to the second floor of the new Building A.

#### *2.2.1.2 Old Gymnasium/Physical Education Building (Building 2)*

The proposed modifications to the Old Gymnasium/Physical Education Building's interior and exterior spaces are shown in **Figure 6** and include:

- Remodeling of male and female locker rooms, restrooms, and shower areas providing ADA upgrades as a result of seismic upgrades that will include reconfiguration of stalls, installation of seating, and widening of doorways;
- Existing interior stairwells and stairs would remain in place;
- Select reconstruction of interior walls for seismic upgrades;
- Telescopic bleachers would be removed and refurbished as needed, stored offsite, and reinstalled
- Exterior alterations include cleaning and repainting the existing walls, doors, windows, louvers, frames, vents, and trim
- Construction of two new ADA ramps on the east side of the building as a result of seismic upgrades.



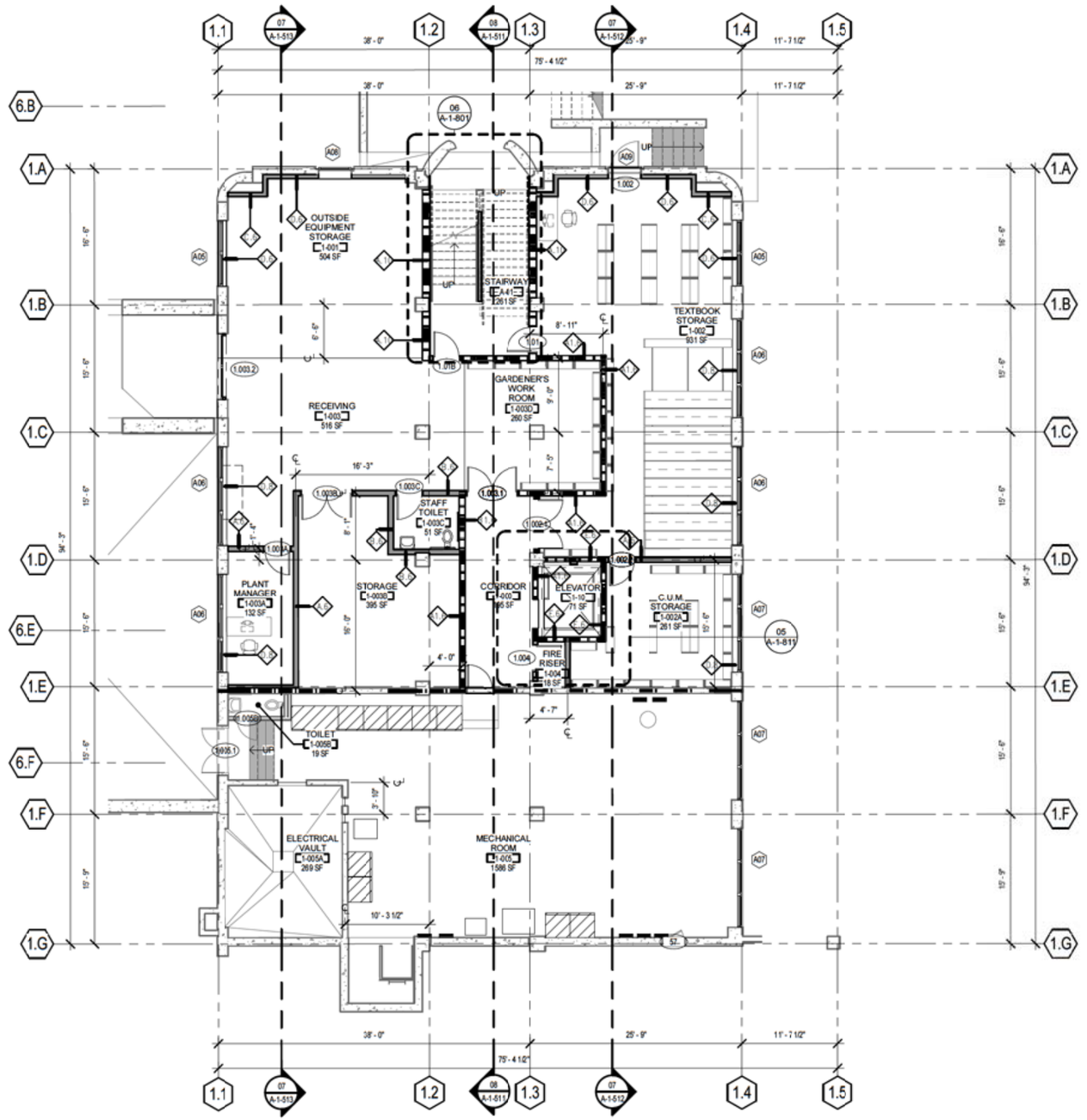

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SOURCE: LPA, Inc., 2018

San Pedro High School Comprehensive Modernization Project

**Figure 2**
Site Plan (Proposed Project)

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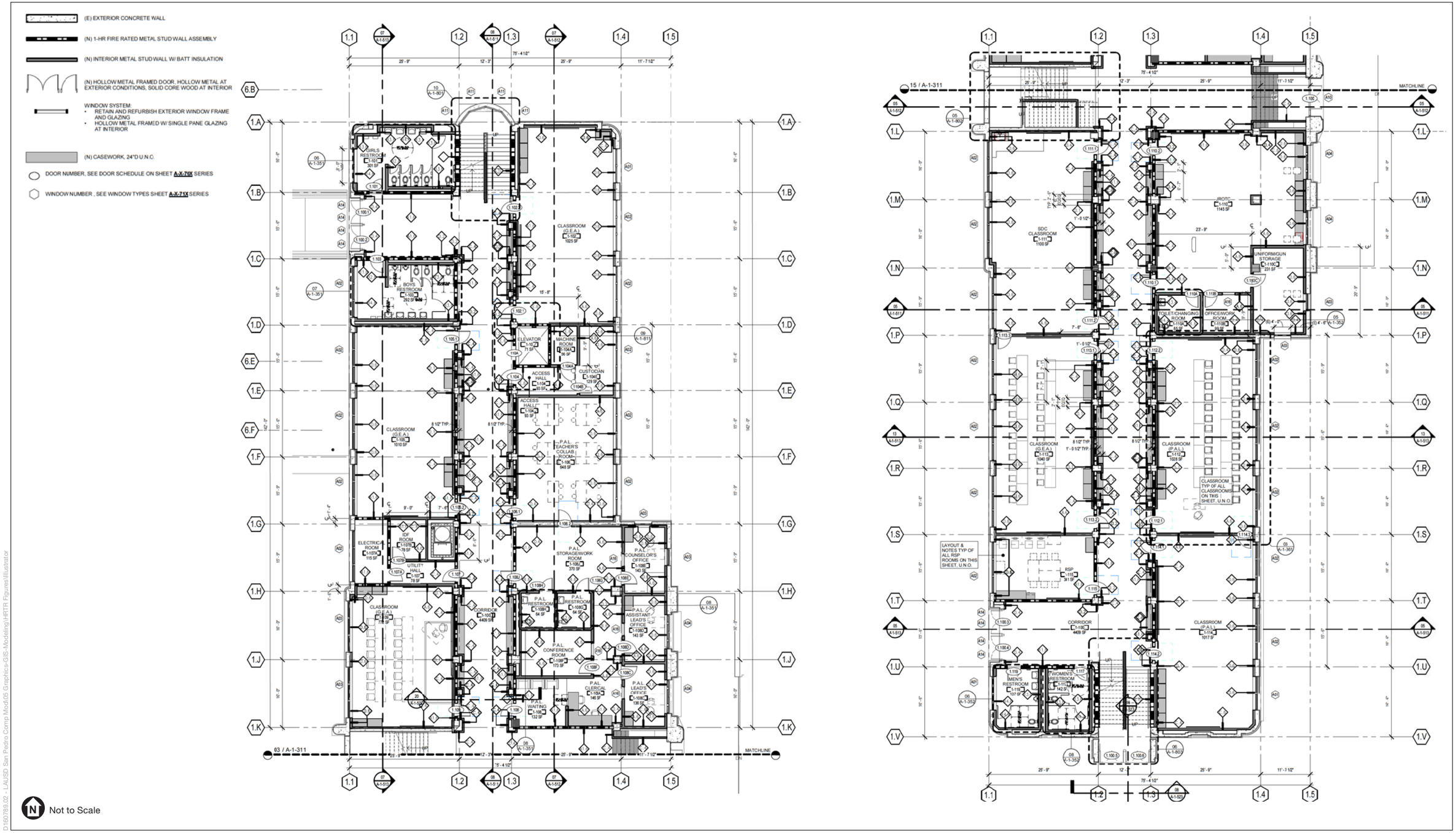

Not to Scale

SOURCE: LPA, Inc., 2017

San Pedro High School Comprehensive Modernization Project

**Figure 3a**
Proposed Reconstruction Plans for the Administration Building (Building 1) – Basement

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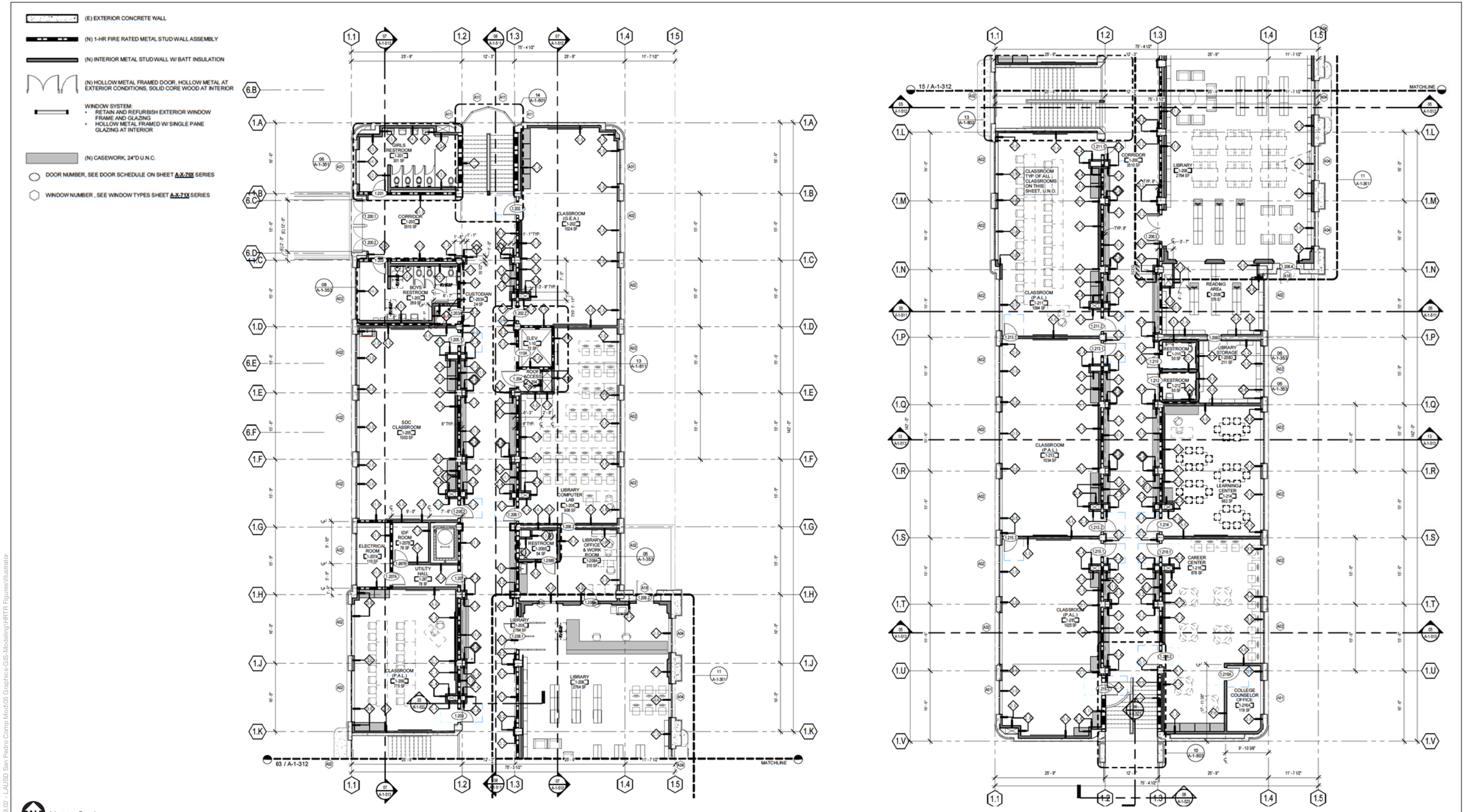

SOURCE: LPA, Inc., 2017

San Pedro High School Comprehensive Modernization Project

**Figure 3b**
Proposed Reconstruction Plans for the Administration Building (Building 1) – First Floor

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SOURCE: LPA, Inc., 2017

San Pedro High School Comprehensive Modernization Project

**Figure 3c**
Proposed Reconstruction Plans for the Administration Building (Building 1) – Second Floor

ESA

(E) EXTERIOR CONCRETE WALL

(N) 1-HR FIRE RATED METAL STUD WALL ASSEMBLY

(N) INTERIOR METAL STUD WALL W/ BATT INSULATION

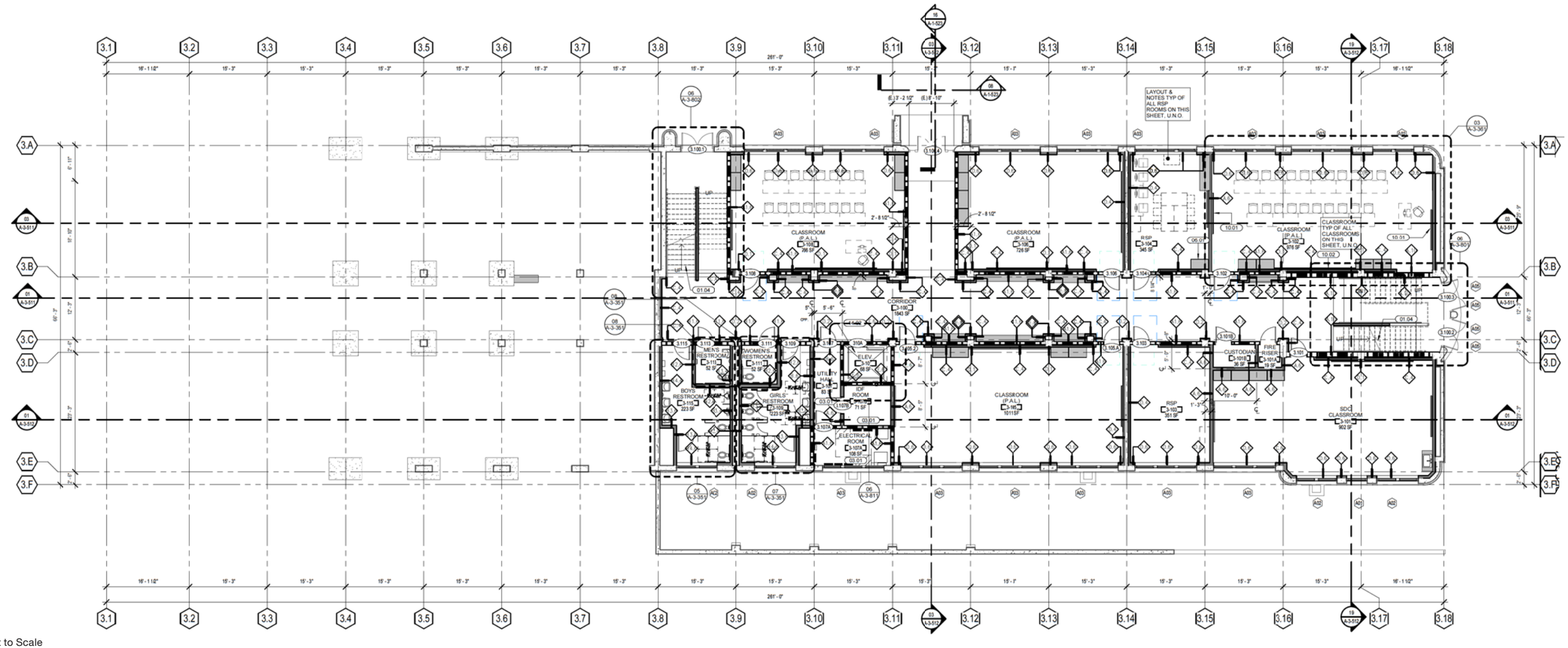
(N) HOLLOW METAL FRAMED DOOR, HOLLOW METAL AT EXTERIOR CONDITIONS, SOLID CORE WOOD AT INTERIOR

WINDOW SYSTEM:
- RETAIN AND REFURBISH EXTERIOR WINDOW FRAME AND GLAZING
- HOLLOW METAL FRAMED W/ SINGLE PANE GLAZING AT INTERIOR

(N) CASEWORK, 24"D U.N.O.

DOOR NUMBER, SEE DOOR SCHEDULE ON SHEET **A-X-70X** SERIES

WINDOW NUMBER , SEE WINDOW TYPES SHEET **A-X-71X** SERIES




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SOURCE: LPA, Inc., 2017

San Pedro High School Comprehensive Modernization Project

**Figure 4a**
Proposed Reconstruction Plans for the Classroom Building No. 1 (Building 3) – First Floor

ESA

(E) EXTERIOR CONCRETE WALL

(N) 1-HR FIRE RATED METAL STUD WALL ASSEMBLY

(N) INTERIOR METAL STUD WALL W/ BATT INSULATION

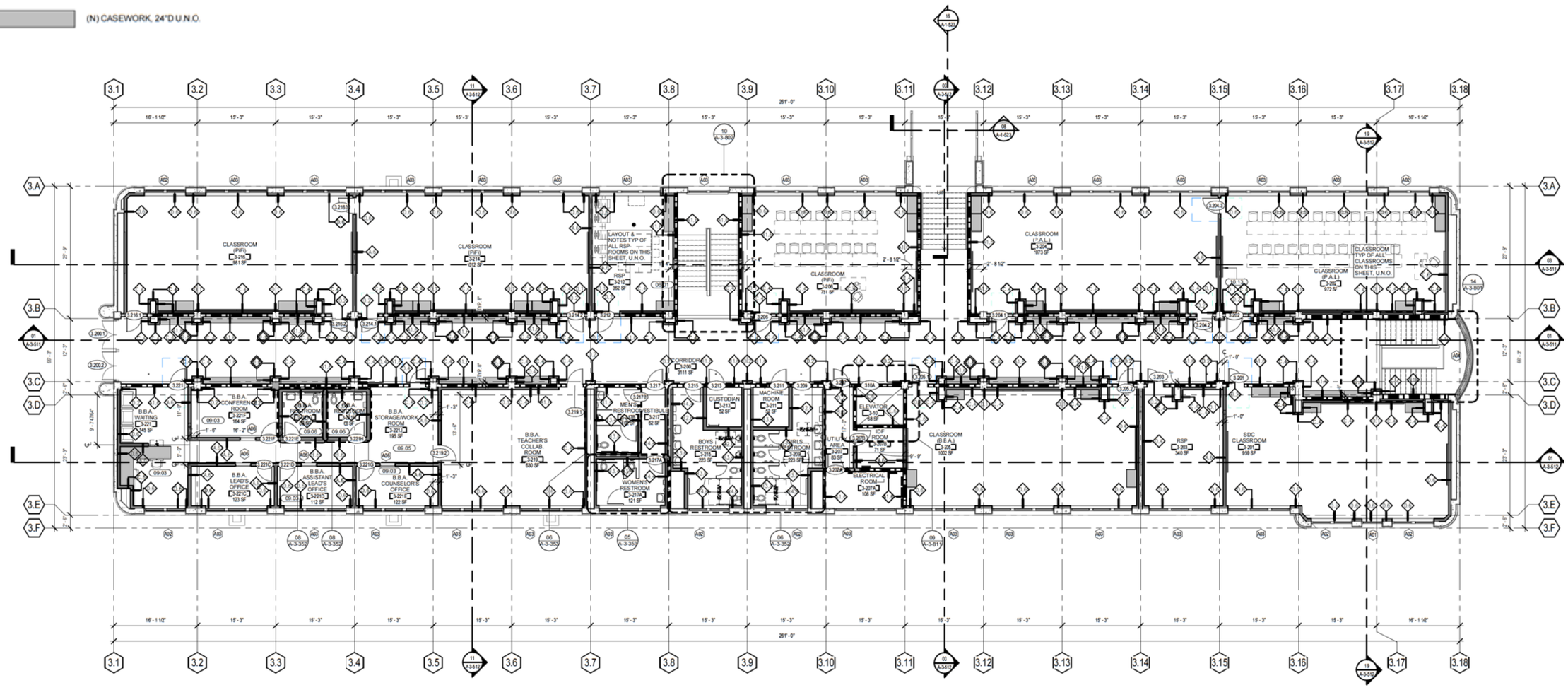
(N) HOLLOW METAL FRAMED DOOR, HOLLOW METAL AT EXTERIOR CONDITIONS, SOLID CORE WOOD AT INTERIOR

WINDOW SYSTEM:
- RETAIN AND REFURBISH EXTERIOR WINDOW FRAME AND GLAZING
- HOLLOW METAL FRAMED W/ SINGLE PANE GLAZING AT INTERIOR

(N) CASEWORK, 24"D U.N.O.

DOOR NUMBER, SEE DOOR SCHEDULE ON SHEET A-X-70X SERIES

WINDOW NUMBER , SEE WINDOW TYPES SHEET A-X-71X SERIES




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SOURCE: LPA, Inc., 2017

San Pedro High School Comprehensive Modernization Project

**Figure 4b**
Proposed Reconstruction Plans for the Classroom Building No. 1 (Building 3) – Second Floor

ESA

(E) EXTERIOR CONCRETE WALL

(N) 1-HR FIRE RATED METAL STUD WALL ASSEMBLY

(N) INTERIOR METAL STUD WALL W/ BATT INSULATION

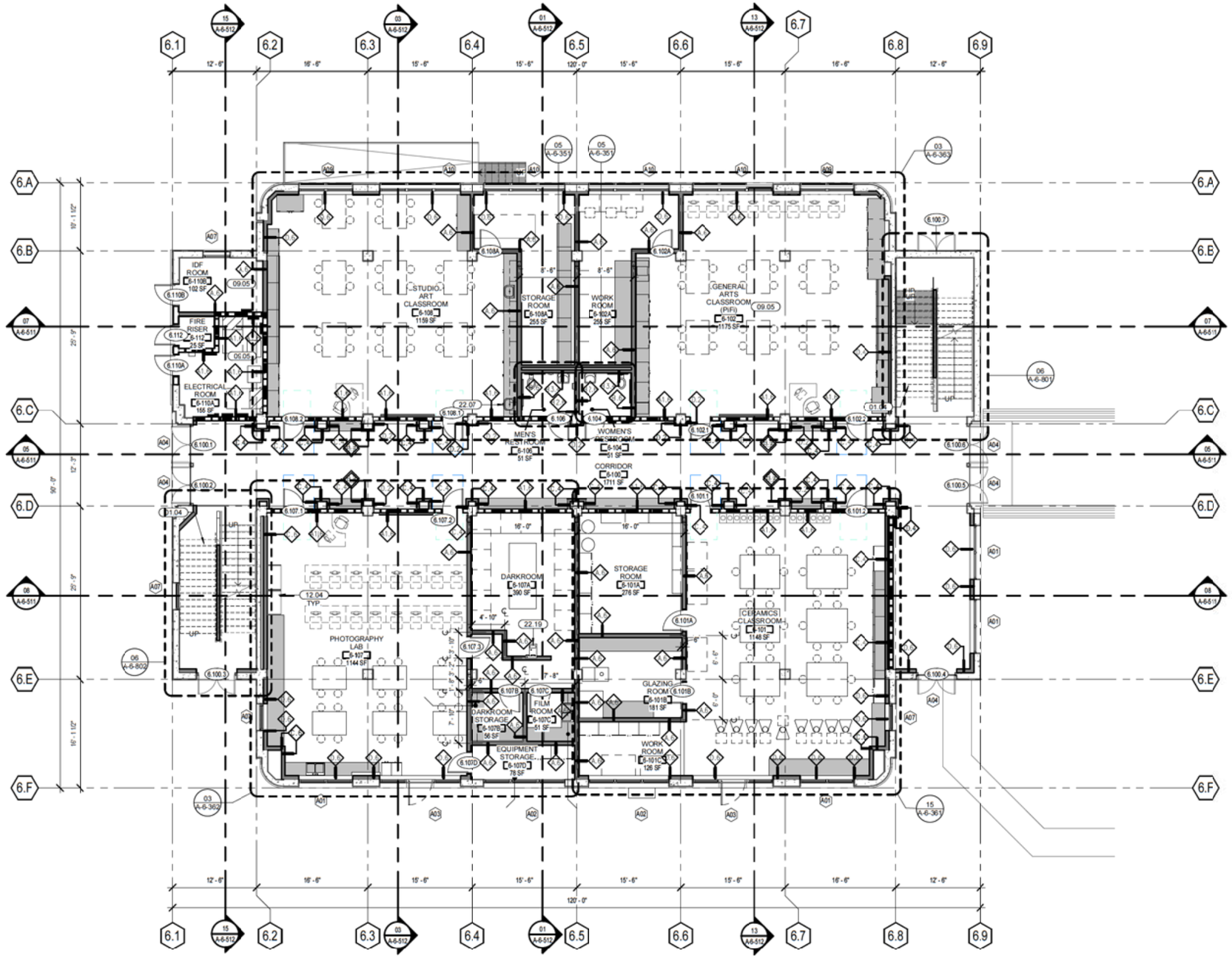
(N) HOLLOW METAL FRAMED DOOR, HOLLOW METAL AT EXTERIOR CONDITIONS, SOLID CORE WOOD AT INTERIOR

WINDOW SYSTEM:
- RETAIN AND REFURBISH EXTERIOR WINDOW FRAME AND GLAZING
- HOLLOW METAL FRAMED W/ SINGLE PANE GLAZING AT INTERIOR

(N) CASEWORK, 24"D U.N.O.

DOOR NUMBER, SEE DOOR SCHEDULE ON SHEET **A-X-70X** SERIES

WINDOW NUMBER , SEE WINDOW TYPES SHEET **A-X-71X** SERIES




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SOURCE: LPA, Inc., 2017

San Pedro High School Comprehensive Modernization Project

**Figure 5a**
Proposed Reconstruction Plans for the Home Economics Building (Building 6) – First Floor

ESA

(E) EXTERIOR CONCRETE WALL

(N) 1-HR FIRE RATED METAL STUD WALL ASSEMBLY

(N) INTERIOR METAL STUD WALL W/ BATT INSULATION

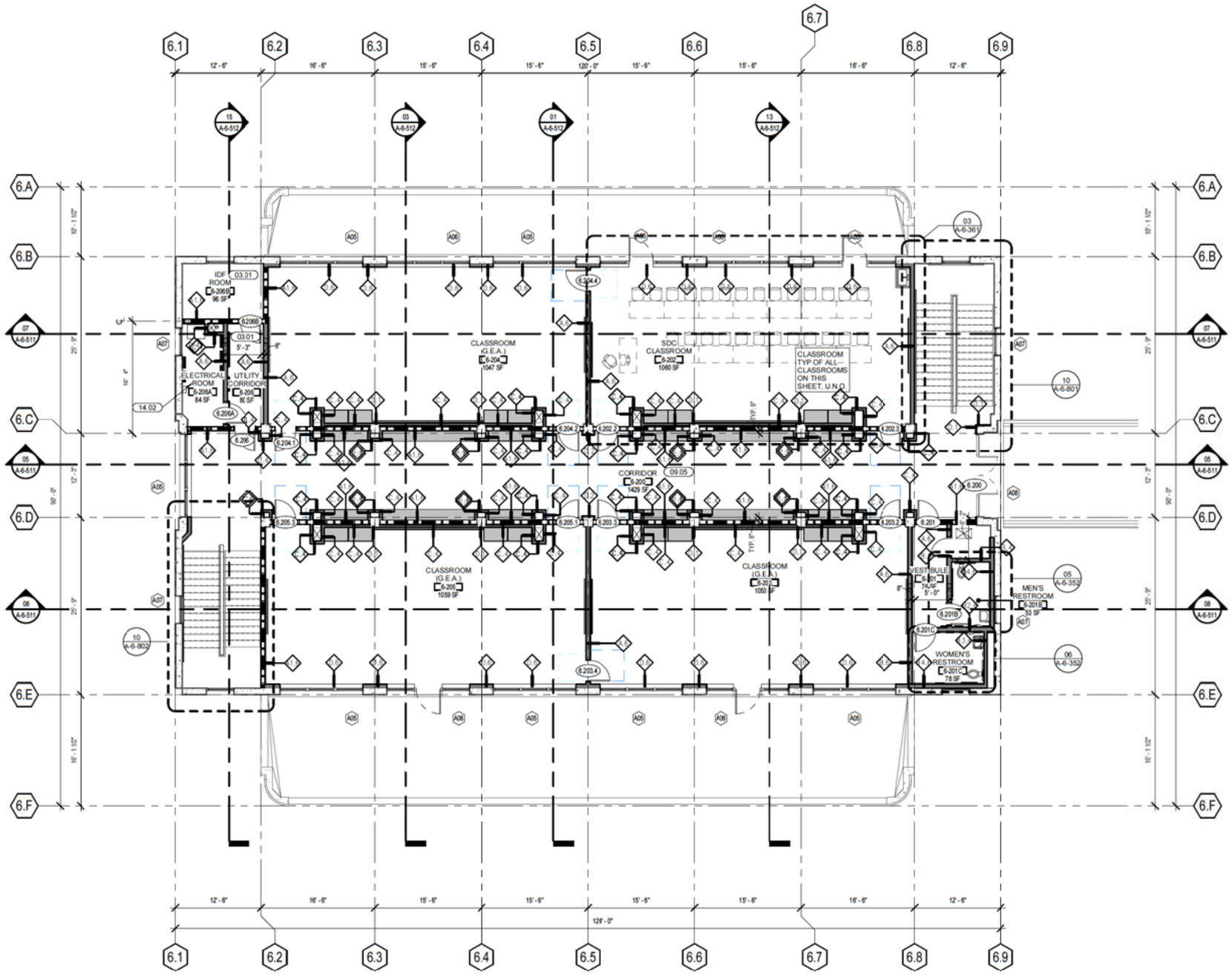
(N) HOLLOW METAL FRAMED DOOR, HOLLOW METAL AT EXTERIOR CONDITIONS, SOLID CORE WOOD AT INTERIOR

WINDOW SYSTEM:
- RETAIN AND REFURBISH EXTERIOR WINDOW FRAME AND GLAZING
- HOLLOW METAL FRAMED W/ SINGLE PANE GLAZING AT INTERIOR

(N) CASEWORK, 24"D U.N.O.

DOOR NUMBER, SEE DOOR SCHEDULE ON SHEET **A-X-70X** SERIES

WINDOW NUMBER , SEE WINDOW TYPES SHEET **A-X-71X** SERIES




Not to Scale

SOURCE: LPA, Inc., 2017

San Pedro High School Comprehensive Modernization Project

**Figure 5b**
Proposed Reconstruction Plans for the Home Economics Building (Building 6) – Second Floor

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(E) EXTERIOR CONCRETE WALL

(E) INTERIOR METAL STUD WALL TO REMAIN

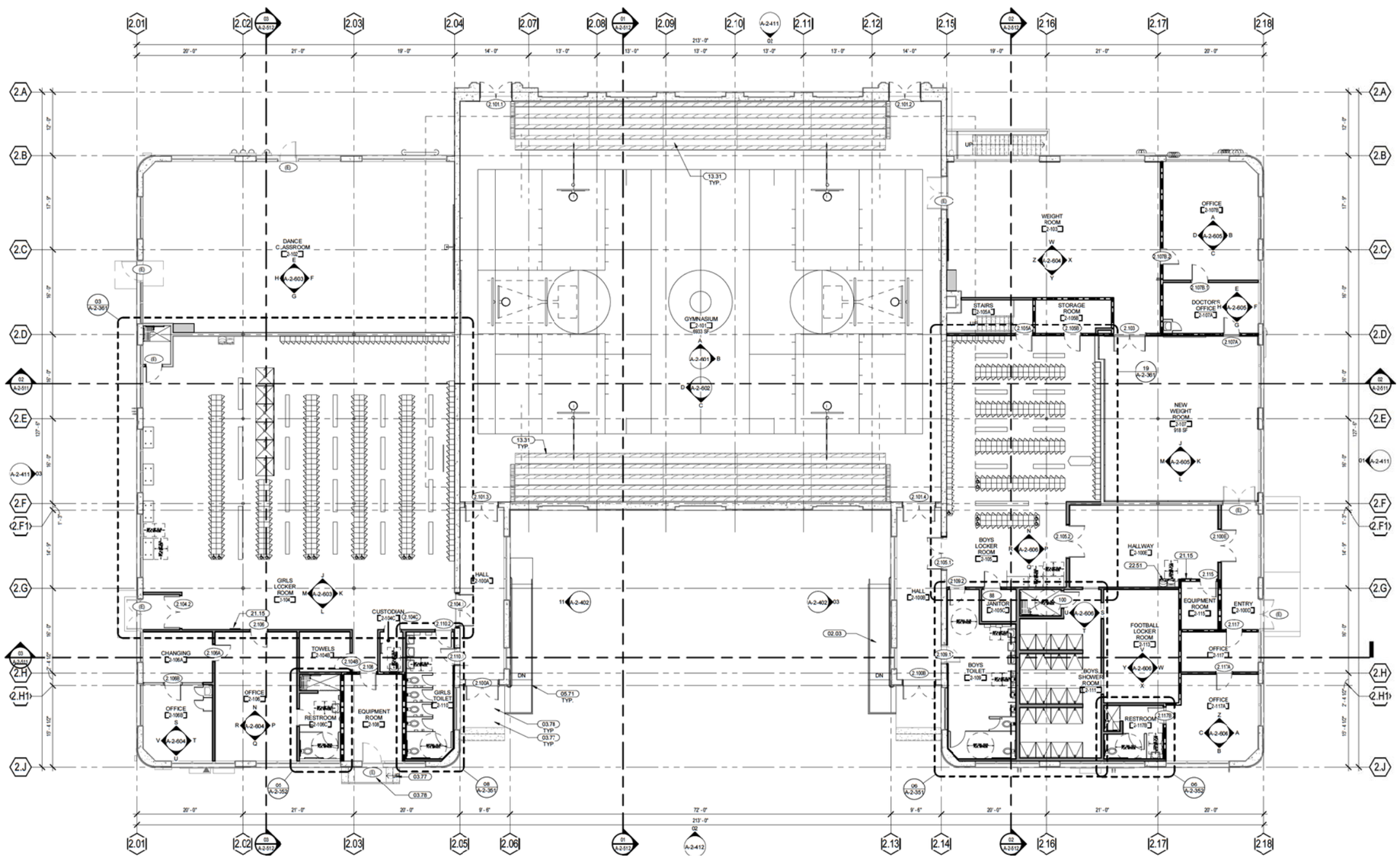
(N) INTERIOR METAL STUD WALL

(N) 1-HR FIRE RATED METAL STUD WALL ASSEMBLY

(N) HOLLOW METAL FRAMED DOOR, RE: DOOR SCHEDULE FOR MORE INFORMATION

(N) HOLLOW METAL FRAMED DOOR, RE: DOOR SCHEDULE FOR MORE INFORMATION

(E) WINDOW TO REMAIN




Not to Scale

SOURCE: LPA, Inc., 2017

San Pedro High School Comprehensive Modernization Project

**Figure 6**
Proposed Reconstruction Plans for the Old Gymnasium/Physical Education Building (Building 2) – First Floor

ESA

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#### *2.2.1.3 Auditorium (Building 5)*

The proposed modifications to the Auditorium's interior and exterior spaces are shown in **Figure 7** and include:

- Interior ADA access improvements including the following:
  - replacing the stairs with a new wheelchair lift at the front of the stage closest to the south wall;
  - installation of one row of new seating at the front and at the rear of the auditorium and reconditioning and/or replacement of damaged existing seating; and,
  - remodeling the existing restrooms to include accessible stalls
- Exterior alterations include cleaning and repainting the existing walls, doors, windows louvers, frames, vents, and trim
- Exterior ADA access improvements include the following:
  - improvements to the main entry; and
  - construction of two new ramps.

### 2.2.2 Site Upgrades and Landscape Design

LAUSD schools are developed with: 1) buildings; 2) paved areas including parking lots, hardcourts, and walkways; and 3) landscaped areas, including turf playfields (i.e., football field and baseball/ softball field) and ornamental landscaping with trees, shrubs, and grass. Certain landscape features of the San Pedro HS Campus are considered to contribute to the significance of the Historic District. Contributing landscape features on the Project site occur in the following locations (**Figure 8**): the perimeter of the Auditorium, the Flag Court on the east side of the Administration Building, the Senior Court on the west side of the Administration Building, the walkway along 15th Street, and the concrete "Victory Arch" monument on the football field.[3] There are no protected trees (i.e., declared historic-cultural monuments, or HCMs) on the Campus.

The proposed Project would include improvements to each of these areas. Landscape improvements may include repair or replacement of irrigation systems including lawn sprinklers and sprinkler controls, trees, shrubs, and other vegetation; utilitarian landscape components; and fencing and freestanding exterior walls. In addition to the improvements listed above, the Senior Court (a contributing landscape element) would be demolished and reconfigured. All other contributing landscape elements would be preserved. A total of 121 trees on the Project site as well as two street trees would be removed. In addition, the proposed Project would include the installation of a small Japanese garden, possibly located east of the new Building A. There was historically a Japanese garden located at San Pedro HS, and it is no longer in existence. The new Japanese garden would be a new intervention that is compatible with its setting.

[3] PCR Services, Character Defining- Features Memorandum (CDFM) for San Pedro High School, 1001 West 15th Street, Los Angeles, California 90731, Prepared for LAUSD, June 30, 2015.

The main entrance to the Campus is on the north side of the Administration Building and is accessed from the intersection of West 15th Street and South Alma Street. Once the proposed Project is completed, the main administration offices would be relocated to the new Building A south of the Auditorium. The school's main entrance would be relocated to the west side of the new Building A and would be accessed from South Leland Street between 16th and 17th streets. The proposed Project is designed to improve circulation, access (including the path of travel), and parking at the Campus with the addition of an accessible visitor onsite parking lot off South Leland Street. Internal circulation routes would include emergency vehicle access and pedestrian access.

The Campus currently includes a staff and visitor parking lot at the southwest corner of the Campus off West 17th Street and a staff and student parking lot in the northeast portion of the Campus off South Alma Street. The proposed Project would result in a decrease of on-site parking spaces from 248 parking stalls to 226 parking stalls (159 parking stalls in the northeast lot and 67 stalls in the southwest lot). The staff and visitor parking lot would be reconfigured with new hardscaping and landscaping, and it would remain on the southwestern corner of the Campus.

With the exception of the front lawn along 15th Street and in front of the Auditorium on South Leland Street, the perimeter of the Campus is surrounded by a metal security fence that is approximately eight feet in height. The improvements to the Project site would include installing similar fencing in new locations. All new structures would be equipped with fire suppression sprinkler systems and lighting on the exterior walls. All entries would be illuminated to provide safe access.

### 2.2.3 Proposed Demolition and New Construction

In order to construct new buildings and structures, the proposed Project would include demolition of the following buildings: Industrial Arts Building (Building 4, a contributor to the Historic District), Buildings 9 and 38 (non-contributing)[4], and five portable (relocatable) buildings (non-contributing). Furthermore, the proposed Project would remove non-contributing canopies near the southwest corner of the Campus and a Food Service Unit and Lunch Shelter near the northwest corner of the Campus. The proposed Project would include construction of new Buildings A and B; four tennis courts; two upgraded parking lots; a reconfigured Senior Court; and a new Central Plant (**Figure 9**).

The new Buildings A and B have been designed in a contemporary style inspired by the historic Streamline Moderne-style buildings on the Campus. The proposed designs incorporate the horizontal banding, rounded corners, selective use of finish materials and colors and flat roofs that ensure the new construction would be compatible yet distinctive from the historic buildings. The new construction would be articulated in painted concrete, plaster, metal panels, and aluminum security screens.

[4] Practice and competitive gymnasium spaces (also referred to as the Girls' Gymnasium Building and Boys' Gymnasium Building respectively).

(E) EXTERIOR CONCRETE WALL

(N) 1-HR FIRE RATED METAL STUD WALL ASSEMBLY

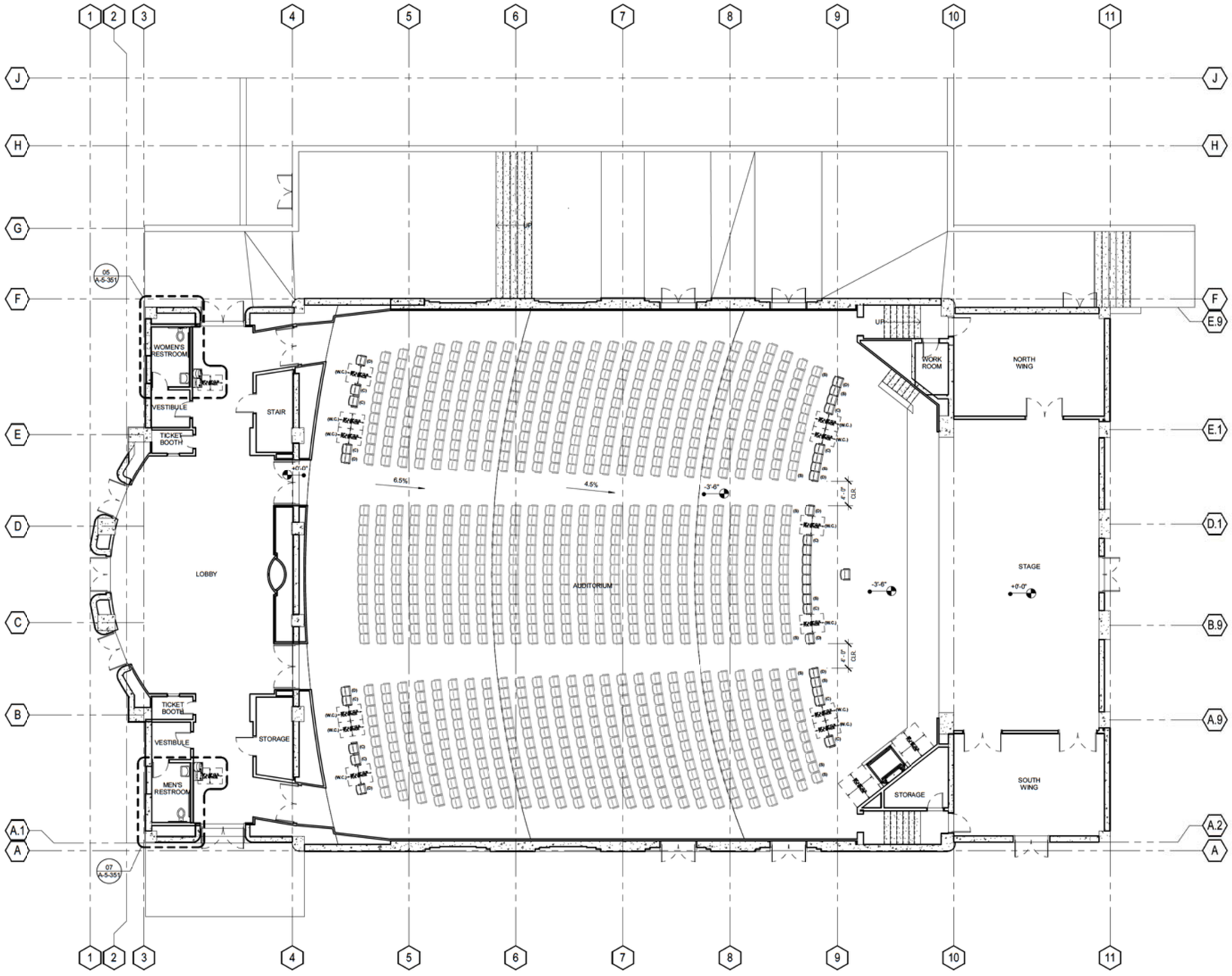
(N) INTERIOR METAL STUD WALL W/ BATT INSULATION

(N) HOLLOW METAL FRAMED DOOR, HOLLOW METAL AT EXTERIOR CONDITIONS, SOLID CORE WOOD AT INTERIOR

(N) CASEWORK, 24"D U.N.O.

(E) FIXED SEATING

(N) FIXED SEATING




Not to scale

SOURCE: LPA, Inc., 2017

San Pedro High School Comprehensive Modernization Project

**Figure 7**
Proposed Reconstruction Plans for the Auditorium (Building 5) – First Floor

D160789.02 - LAUSD San Pedro Comp Mod\05 Graphics-GIS-Modeling\HRTR Figures\Illustrator

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SOURCE: LPA Inc., 2017.

**Figure 8**
Rendering of Proposed Landscape in and Around the Flag Court (at bottom) and the Senior Court (near center).



SOURCE: LPA Inc., 2017.

**Figure 9**
Rendering of Proposed Building A (at right) and Building B (at left).

# 3. Regulatory Framework

Historical resources fall within the jurisdiction of the federal, state, and local designation programs. Federal laws provide the framework for the identification, and in certain instances, protection of historical resources. Additionally, state and local jurisdictions play active roles in the identification, documentation, and protection of such resources within their communities. The National Historic Preservation Act (NHPA) of 1966, as amended and the California Public Resources Code (PRC), Section 5024.1, are the primary federal and state laws and regulations governing the evaluation and significance of historical resources of national, state, regional, and local importance. Descriptions of the relevant laws and regulations that were considered in addition to the District's framework are presented below.

## 3.1 Federal

### 3.1.1 NHPA of 1966

The principal federal law addressing historic properties is the National Historic Preservation Act (NHPA), as amended (54 United States Code of Laws [USC] 300101 et seq.), and its implementing regulations (36 CFR Part 800). Section 106 requires a federal agency with jurisdiction over a proposed federal action (referred to as an "undertaking" under the NHPA) to take into account the effects of the undertaking on historic properties, and to provide the Advisory Council on Historic Preservation (ACHP) an opportunity to comment on the undertaking.

The term "historic properties" refers to "any prehistoric or historic district, site, building, structure, or object included in, or eligible for inclusion in, the National Register" (36 CFR Part 800.16(l)(1)).

The implementing regulations (36 CFR Part 800) describe the process for identifying and evaluating historic properties, for assessing the potential adverse effects of federal undertakings on historic properties, and seeking to develop measures to avoid, minimize, or mitigate adverse effects. The Section 106 process does not require the preservation of historic properties; instead, it is a procedural requirement mandating that federal agencies take into account effects to historic properties from an undertaking prior to approval.

The steps of the Section 106 process are accomplished through consultation with the State Historic Preservation Officer (SHPO), federally-recognized Indian tribes, local governments, and other interested parties. The goal of consultation is to identify potentially affected historic properties, assess effects to such properties, and seek ways to avoid, minimize, or mitigate any adverse effects on such properties. The agency also must provide an opportunity for public involvement (36 CFR 800.1(a)). Consultation with Indian tribes regarding issues related to Section 106 and other authorities (such as NEPA and Executive Order No. 13007) must recognize the government-to-government relationship between the Federal government and Indian tribes, as set forth in Executive Order 13175, 65 FR 87249 (Nov. 9, 2000), and Presidential Memorandum of Nov. 5, 2009.

### 3.1.2 National Register of Historic Places

The National Register of Historic Places (National Register) was established by the NHPA of 1966, as "an authoritative guide to be used by federal, State, and local governments, private groups and citizens to identify the Nation's historic resources and to indicate what properties should be considered for protection from destruction or impairment" (36 CFR 60.2) (U.S. Department of the Interior, 2002). The National Register recognizes a broad range of cultural resources that are significant at the national, state, and local levels and can include districts, buildings, structures, objects, prehistoric archaeological sites, historic-period archaeological sites, traditional cultural properties, and cultural landscapes. As noted above, a resource that is listed in or eligible for listing in the National Register is considered "historic property" under Section 106 of the NHPA.

To be eligible for listing in the National Register, a property must be significant in American history, architecture, archaeology, engineering, or culture. Properties of potential significance must meet one or more of the following four established criteria:

A. Are associated with events that have made a significant contribution to the broad patterns of our history;

B. Are associated with the lives of persons significant in our past;

C. Embody the distinctive characteristics of a type, period, or method of construction or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

D. Have yielded, or may be likely to yield, information important in prehistory or history.

In addition to meeting one or more of the criteria of significance, a property must have integrity. Integrity is defined as "the ability of a property to convey its significance" (U.S. Department of the Interior, 2002). The National Register recognizes seven qualities that, in various combinations, define integrity. The seven factors that define integrity are location, design, setting, materials,

workmanship, feeling, and association. To retain historic integrity a property must possess several, and usually most, of these seven aspects. Thus, the retention of the specific aspects of integrity is paramount for a property to convey its significance.

Ordinarily religious properties, moved properties, birthplaces or graves, cemeteries, reconstructed properties, commemorative properties, and properties that have achieved significance within the past 50 years are not considered eligible for the National Register unless they meet at least one of the four significance criteria listed above and one of the Criteria Considerations (A-G), in addition to possessing integrity (U.S. Department of the Interior, 2002).

### 3.1.3 Secretary of the Interior's Standards

The Secretary of the Interior's Standards for the Treatment of Historic Properties (SOI Standards), codified at 36 Code of Federal Regulations (CFR) Section 67.7, are a series of concepts about maintaining, repairing, and replacing, as well as designing new additions or making alterations to historic buildings. The SOI Standards, in particular the SOI Standards for Rehabilitation, are intended as general guidance for work on all historic properties and are widely used and have been adopted at the Federal, State and local levels. The SOI Standards offer four distinct approaches to the treatment of historic properties and include guidelines for Preservation, Rehabilitation, Restoration and Reconstruction. The National Park Services describes the four treatment levels of potential treatment for a property:

- Preservation focuses on the maintenance and repair of existing historic materials and retention of a property's form as it has evolved over time.
- Rehabilitation acknowledges the need to alter or add to a historic property to meet continuing or changing uses while retaining the property's historic character.
- Restoration depicts a property at a particular period of time in its history, while removing evidence of other periods.
- Reconstruction re-creates vanished or non-surviving portions of a property for interpretive purposes.[5]

Each level of treatment has its own set of standards which guide the work in that treatment approach. Generally, in planning for anticipated work on a historic structure or property, one of the four treatment approaches is selected as the overall treatment approach.

In general, the SOI Standards for Rehabilitation are selected as the appropriate treatment approach for a historic property when alterations or additions are required to a property planned for new or continued use. The SOI Standards for Rehabilitation are as follows:

1. A property will be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces, and spatial relationships.

[5] National Park Service US Department of the Interior, "Four Approaches to the Treatment of Historic Properties," The Secretary of the Interior's Standards, https://www.nps.gov/tps/standards/four-treatments.htm. Accessed July 31, 2017.

2. The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces, and spatial relationships that characterize a property will be avoided.

3. Each property will be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, will not be undertaken.

4. Changes to a property that have acquired historic significance in their own right will be retained and preserved.

5. Distinctive materials, features, finishes, and construction techniques or examples of craftsmanship that characterize a property will be preserved.

6. Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature will match the old in design, color, texture, and, where possible, materials. Replacement of missing features will be substantiated by documentary and physical evidence.

7. Chemical or physical treatments, if appropriate, will be undertaken using the gentlest means possible. Treatments that cause damage to historic materials will not be used.

8. Archeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measures will be undertaken.

9. New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work shall be differentiated from the old and will be compatible with the historic materials, features, size, scale and proportion, and massing to protect the integrity of the property and its environment.

10. New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.6

## 3.2 State

### 3.2.1 California Environmental Quality Act

CEQA is the principal statute governing environmental review of projects occurring in the state and is codified at *Public Resources Code (PRC) Section 21000 et seq.* CEQA requires lead agencies to determine if a proposed Project would have a significant effect on the environment, including significant effects on historical or unique archaeological resources. Under CEQA (Section 21084.1), a project that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment.

The *CEQA Guidelines* (Title 14 California Code of Regulations [CCR] Section 15064.5) recognize that historical resources include: (1) a resource listed in, or determined to be eligible by the State Historical Resources Commission, for listing in the California Register of Historical Resources (California Register); (2) a resource included in a local register of historical resources, as defined

6 National Park Service US Department of the Interior, "Rehabilitation as Treatment," The Secretary of the Interior's Standards, https://www.nps.gov/tps/standards/four-treatments/treatment-rehabilitation.htm. Accessed July 31, 2017.

in PRC Section 5020.1(k) or identified as significant in a historical resource survey meeting the requirements of PRC Section 5024.1(g); and (3) any object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California by the lead agency, provided the lead agency's determination is supported by substantial evidence in light of the whole record. The fact that a resource does not meet the three criteria outlined above does not preclude the lead agency from determining that the resource may be an historical resource as defined in PRC Sections 5020.1(j) or 5024.1.

If a lead agency determines that an archaeological site is a historical resource, the provisions of Section 21084.1 of CEQA and Section 15064.5 of the *CEQA Guidelines* apply. If an archaeological site does not meet the criteria for a historical resource contained in the *CEQA Guidelines*, then the site may be treated in accordance with the provisions of Section 21083, which is as a unique archaeological resource. As defined in Section 21083.2 of CEQA a "unique" archaeological resource is an archaeological artifact, object, or site, about which it can be clearly demonstrated that without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

- Contains information needed to answer important scientific research questions and there is a demonstrable public interest in that information;
- Has a special and particular quality such as being the oldest of its type or the best available example of its type; or,
- Is directly associated with a scientifically recognized important prehistoric or historic event or person.

If an archaeological site meets the criteria for a unique archaeological resource as defined in Section 21083.2, then the site is to be treated in accordance with the provisions of Section 21083.2, which states that if the lead agency determines that a project would have a significant effect on unique archaeological resources, the lead agency may require reasonable efforts be made to permit any or all of these resources to be preserved in place (Section 21083.1(a)). If preservation in place is not feasible, mitigation measures shall be required. The *CEQA Guidelines* note that if an archaeological resource is neither a unique archaeological nor a historical resource, the effects of the project on those resources shall not be considered a significant effect on the environment (*CEQA Guidelines* Section 15064.5(c)(4)).

A significant effect under CEQA would occur if a project results in a substantial adverse change in the significance of a historical resource as defined in *CEQA Guidelines* Section 15064.5(a). Substantial adverse change is defined as "physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of a historical resource would be materially impaired" (*CEQA Guidelines* Section 15064.5(b)(1)). According to *CEQA Guidelines* Section 15064.5(b)(2), the significance of a historical resource is materially impaired when a project demolishes or materially alters in an adverse manner those physical characteristics that:

A. Convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the California Register; or

B. Account for its inclusion in a local register of historical resources pursuant to section 5020.1(k) of the Public Resources Code or its identification in a historical resources survey meeting the requirements of section 5024.1(g) of the Public Resources Code, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or

C. Convey its historical significance and that justify its eligibility for inclusion in the California Register as determined by a Lead Agency for purposes of CEQA.

In general, a project that complies with the SOI Standards (Weeks and Grimer, 1995) is considered to have mitigated its impacts to historical resources to a less-than-significant level (*CEQA Guidelines* Section 15064.5(b)(3)).

### 3.2.2 California Register of Historical Resources

The California Register of Historical Resources (California Register) is "an authoritative listing and guide to be used by State and local agencies, private groups, and citizens in identifying the existing historical resources of the State and to indicate which resources deserve to be protected, to the extent prudent and feasible, from substantial adverse change" (PRC Section 5024.1[a]). The criteria for eligibility for the California Register are based upon National Register criteria (PRC Section 5024.1[b]).

To be eligible for the California Register, a prehistoric or historic-period property must be significant at the local, state, and/or federal level under one or more of the following four criteria:

1. Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;
2. Is associated with the lives of persons important in our past;
3. Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or
4. Has yielded, or may be likely to yield, information important in prehistory or history.

A resource eligible for the California Register must meet one of the criteria of significance described above, and retain enough of its historic character or appearance (integrity) to be recognizable as a historical resource and to convey the reason for its significance. It is possible that a historic resource may not retain sufficient integrity to meet the criteria for listing in the National Register, but it may still be eligible for listing in the California Register.

Additionally, the California Register consists of resources that are listed automatically and those that must be nominated through an application and public hearing process. The California Register automatically includes the following:

- California properties listed on the National Register and those formally determined eligible for the National Register;
- California Registered Historical Landmarks from No. 770 onward; and,
- Those California Points of Historical Interest that have been evaluated by the Office of Historic Preservation and have been recommended to the State Historical Commission for inclusion on the California Register.

Other resources that may be nominated to the California Register include:

- Historical resources with a significance rating of Category 3 through 5 (those properties identified as eligible for listing in the National Register, the California Register, and/or a local jurisdiction register);
- Individual historical resources;
- Historical resources contributing to historic districts; and,
- Historical resources designated or listed as local landmarks, or designated under any local ordinance, such as an historic preservation overlay zone.

### 3.2.3 California Historical Building Code

The California Historical Building Code (CHBC), as codified in Section 8 of the California Code of Regulations, Title 24, offers flexibility for code requirements and "requires enforcing agencies to accept solutions that are reasonably equivalent to the regular code (as defined in Chapter 8-2) when dealing with qualified historical buildings or properties."7 The CHBC is intended to provide unique solutions for the preservation of qualified historical buildings or properties to promote sustainability, to provide access for persons with disabilities, to provide a cost –effective approach to preservation, and to provide for the reasonable safety of the occupants or users.

As defined in California Health and Safety Code Section 18955, historical buildings and properties qualifying for use of the CHBC include:

> *Any building, site, object, place, location, district or collection of structures, and their associated sites, deemed of importance to the history, architecture or culture of an area by an appropriate local, state or federal governmental jurisdiction. This shall include historical buildings or properties on, or determined eligible for, national, state or local historical registers or inventories, such as the National Register of Historic Places, California Register of Historical Resources, State Historical Landmarks, State Points of Historical Interest, and city or county*

7 California Code of Regulations, Title 24, California Historical Building Code, Section 8-101.2. (Washington, DC: International Code Council, 2013): 1.

*registers, inventories or surveys of historical or architecturally significant sites, places or landmarks.*[8]

# 3.3 Local

## 3.3.1 City of Los Angeles

The City enacted a Cultural Heritage Ordinance in April 1962 which defines Historic-Cultural Monuments. According to the Cultural Heritage Ordinance, Historic-Cultural Monuments are sites, buildings, or structures of particular historic or cultural significance to the City in which the broad cultural, political, or social history of the nation, state, or City is reflected or exemplified, including sites and buildings associated with important personages or which embody certain distinguishing architectural characteristics and are associated with a notable architect. These Historic-Cultural Monuments (HCMs) are regulated by the City's Cultural Heritage Commission and the City Council.

### *3.3.1.1 Los Angeles Cultural Heritage Ordinance Eligibility Criteria*

The Los Angeles City Council adopted the Cultural Heritage Ordinance in 1967 and amended it in 2007 (Los Angeles Administration Code, Chapter 9, Division 22, Article 1, Section 22.171.7). The Cultural Heritage Ordinance establishes criteria for designating a local historical resource as an HCM. An HCM is any site (including significant trees or other plant life located on the site), building or structure of particular historic or cultural significance to the City, including historic structures or sites:

- In which the broad cultural, economic or social history of the nation, State or community is reflected or exemplified; or
- Which is identified with historic personages or with important events in the main currents of national, State or local history; or
- Which embodies the distinguishing characteristics of an architectural type specimen, inherently valuable for a study of a period, style or method of construction; or
- Which is a notable work of a master builder, designer, or architect whose individual genius influenced his or her age.

### *3.3.1.2. SurveyLA Eligibility Standards*

SurveyLA was a citywide survey that identified and documented significant historic resources representing important themes in the City's history. The survey and resource evaluations were completed by consultant teams under contract to the City of Los Angeles and the supervision of the Office of Historic Resources (OHR). The program was managed by the OHR, which maintains a website for SurveyLA.[9] The field surveys covered the period from approximately 1850 to 1980 and included individual resources such as buildings, structures, objects, natural features and cultural landscapes as well as areas and districts (archaeological resources will be included in a future survey phase). Significant resources reflected important themes in the City's growth and

[8] California Code of Regulations, Title 24, California Historical Building Code, Section 8-101.2. (Washington, DC: International Code Council, 2013): 4.

[9] City of Los Angeles, Department of City Planning, Office of Historic Resources, *SurveyLA: Los Angeles Historic Resources Survey*, http://preservation.lacity.org/survey. Accessed January 5, 2017.

development in various areas including architecture, city planning, social history, ethnic heritage, politics, industry, transportation, commerce, entertainment, and others. Field surveys, conducted from 2010-2017, were completed in three phases by Community Plan Area. All tools and methods developed for SurveyLA met state and federal professional standards for survey work.

Los Angeles' citywide Historic Context Statement (HCS) was designed for use by SurveyLA field surveyors and by all agencies, organizations, and professionals completing historic resources surveys in the City of Los Angeles. The context statement was organized using the Multiple Property Documentation (MPD) format developed by the National Park Service (NPS) for use in nominating properties related by theme to the National Register. This format provided a consistent framework for evaluating historic resources. It was adapted for local use to evaluate the eligibility of properties for city, state, and federal designation programs and to facilitate environmental review processes.[10] The HCS used Eligibility Standards to identify the character defining, associative features, and integrity aspects a property should retain to be a significant example of a type within a defined theme. Eligibility Standards also indicated the general geographic location, area of significance, applicable criteria, and period of significance associated with that type. These Eligibility Standards are guidelines based on knowledge of known significant examples of property types; properties do not need to meet all of them in order to be eligible.

### *3.3.1.3. LAUSD Applicable Standard Conditions of Approval*

The Program EIR includes Standard Conditions of Approval (SCs) for minimizing impacts to cultural resources in areas where future projects would be implemented under the SUP.[11] Applicable SCs related to cultural resource impacts associated with the proposed Project are provided in **Table 1**, below.

**TABLE 1**
**CULTURAL RESOURCES STANDARD CONDITIONS OF APPROVAL**

| Applicable SCs | Description |
|---|---|
| SC-CUL-1 | Design Build Team to Include Qualified Historic Architect<br>For campuses with qualifying historical resources under CEQA, the Design team shall include a qualified Historic Architect. The Historic Architect shall provide input to ensure ongoing compliance, as Project plans progress, with the Secretary of the Interior's Standards and LAUSD requirements and guidelines for the treatment of historical resources (specific requirements follow in SC-CUL-2).<br>For projects involving structural upgrades to historic resources, the Design team shall include a qualified Structural Engineer with a minimum of eight (8) years of demonstrated project-level experience in Historic Preservation.<br>The Historic Architect/s shall meet the Secretary of the Interior's Professional Qualifications Standards and the standards described on page 8 of the LAUSD Design Guidelines and Treatment Approaches for Historic Schools. The Historic Architect shall provide input throughout the design and construction process to ensure ongoing compliance with the above-mentioned standards. |

[10] City of Los Angeles, Department of City Planning, Office of Historic Resources, *Guide for Professionals Using the Historic Context Statement for Property Evaluations*, http://preservation.lacity.org/sites/default/files/Guide%20for%20Professionals%20Using%20the%20Historic%20Context%20Statement_Jan%202016_0.pdf. Accessed January 5, 2017.

[11] The Standard Conditions of Approval have been updated since the adoption of the 2015 version in order to incorporate and reflect changes in the recent laws, regulations, and the Los Angeles Unified School District's standard policies, practices, and specifications.

**TABLE 1**
**CULTURAL RESOURCES STANDARD CONDITIONS OF APPROVAL**

| Applicable SCs | Description |
|---|---|
| SC-CUL-2 | Role of Historic Architect on Design Team<br>The tasks of the Historic Architect on the Design team shall include (but not necessarily be limited to) the following:<br>1. The Historic Architect shall work with the Design team and LAUSD to ensure that Project components, including new construction and modernization of existing facilities, continue to comply with applicable historic preservation standards, including the Secretary of the Interior's Standards for the Treatment of Historic Properties and LAUSD Design Guidelines and Treatment Approaches for Historic Schools. The Historic Architect shall work with the Design team throughout the design process to develop Project options that facilitate compliance with the applicable historic preservation standards.<br>2. For new construction, the Historic Architect shall work with the Design team and LAUSD to identify options and opportunities for (1) ensuring compatibility of scale and character for new construction, site and landscape features, and circulation corridors, and (2) ensuring that new construction is designed and sited in such a way that reinforces and strengthens, as much as feasible, character-defining site plan features, landscaping, and circulation corridors throughout campus.<br>3. For modernization and upgrade projects involving contributing (significant) buildings or features, the Historic Architect shall work with the Design team and LAUSD to ensure that specifications for design and implementation of projects comply with the applicable historic preservation standards.<br>4. The Historic Architect shall participate in design team meetings through all phases of the Project through 100 percent construction drawings, pre-construction, and construction phases.<br>5. The Historic Architect shall produce brief memos, at the 50 percent and 100 percent construction drawings stages, demonstrating how principal Project components and treatment approaches comply with applicable historic preservation standards, including the Secretary of the Interior's Standards for the Treatment of Historic Properties and LAUSD Design Guidelines and Treatment Approaches for Historic Schools. The memos will be reviewed by LAUSD and incorporated into the Mitigation Monitoring and Reporting Plan (MMRP) for the Project.<br>6. The Historic Architect shall participate in pre-construction and construction monitoring activities to ensure continuing conformance with Secretary's Standards and/or avoidance of a material impairment of the historical resources.<br>7. The Historic Architect shall provide specialized Construction Specifications Institute (CSI) specifications for architectural features or materials requiring restoration, removal, or on site storage. This shall include detailed instructions on maintaining and protecting in place relevant features.<br>8. The Design team and Historic Architect shall be responsible for incorporating LAUSD's recommended updates and revisions during the design development and review process. |
| SC-CUL-3 | School Design Guide and LAUSD Design Guidelines and Treatment Approaches for Historic Schools.<br>LAUSD has adopted policies and guidelines that apply to projects involving historic resources. The Design team and Historic Architect shall apply these guidelines, which include the LAUSD School Design Guide and LAUSD Design Guidelines and Treatment Approaches for Historic Schools and the Secretary's Standards for all new construction and upgrade/modernization projects. In keeping with the district's adopted policies and goals, LAUSD shall re-use rather than destroy historical resources where feasible.<br>LAUSD shall follow the guidelines outlined in these documents to the maximum extent practicable when planning and implementing projects and adjacent new construction involving historical resources. General guidelines shall include:<br>• Retain and preserve the historic character of buildings, structures, landscapes, and site features that are historically significant.<br>• Repair rather than remove, replace, or destroy character-defining features; if replacement is necessary, replace in-kind to match in materials and appearance.<br>• Avoid removing, obscuring, or destroying character-defining features and materials.<br>• Treat distinctive architectural features or examples of skilled craftsmanship that characterize a building with sensitivity.<br>• Conceal reinforcement required for structural stability or the installation of life safety or mechanical systems. |

**TABLE 1**
**CULTURAL RESOURCES STANDARD CONDITIONS OF APPROVAL**

| Applicable SCs | Description |
|---|---|
| | • Undertake surface cleaning, preparation of surfaces, and other projects involving character-defining features using the least invasive, gentlest means possible. Avoid sandblasting and chemical treatments. |
| SC-CUL-4 | Prior to demolition or mothballing activities, LAUSD shall retain a professional architectural photographer and a historian or architectural historian who meets the Secretary of the Interior's Professional Qualifications Standards to prepare HABS-like documentation for the historical resources slated for demolition.<br>The HABS-like package will document in photographs and descriptive and historic narrative the historical resources slated for demolition. Documentation prepared for the package will draw upon primary- and secondary-source research and available studies previously prepared for the Project. Measured drawings shall not be required for the Project.<br>The specifications for the HABS-like package follow:<br>Photographs: Photographic documentation will focus on the historical resources/features slated for demolition, with overview and context photographs for the campus and adjacent setting. Photographs will be taken of interior and exterior features of the buildings using a professional-quality single lens reflex (SLR) digital camera with a minimum resolution of 10 megapixels. Photographs will include context views, elevations/exteriors, architectural details, overall interiors, and interior details (if warranted). Digital photographs will be printed in black and white on archival film paper and also provided in electronic format.<br>Descriptive and Historic Narrative: The historian or architectural historian will prepare descriptive and historic narrative of the historical resources/features slated for demolition. Physical descriptions will detail each resource, elevation by elevation, with accompanying photographs, and information on how the resource fits within the broader campus during its period of significance. The historic narrative will include available information on the campus design, history, architect/contractor/designer as appropriate, area history, and historic context. In addition, the narrative will include a methodology section specifying the name of researcher, date of research, and sources/archives visited, as well as a bibliography. Within the written history, statements shall be footnoted as to their sources, where appropriate.<br>Historic Documentation Package Submittal: The draft package will be assembled by the historian or architectural historian and submitted to LAUSD for review and comment. After final approval, one hard-copy set of the package will be prepared as follows: Photographs will be individually labeled and stored in individual acid-free sleeves. The remaining components of the historic documentation package (site map, photo index, historic narrative, and additional data) will be printed on archival bond, acid-free paper.<br>Upon completion of the descriptive and historic narrative, all materials will be compiled in electronic format and presented to LAUSD for review and approval. Upon approval, one hard-copy version of the historic documentation package will be prepared and submitted to LAUSD. The historian or architectural historian shall offer a hardcopy package and compiled, electronic version of the final package to the Los Angeles Public Library (Central Library), Los Angeles Historical Society, and the South Central Coastal Information Center, to make available to researchers. |
| SC-CUL-5 | LAUSD, consistent with Education Code Section 17540, shall offer to sell any useful features of the school building (e.g., the school bell, chalkboards, lockers) that do not contain hazardous materials for use or display, if features are not retained by LAUSD for reuse or display. |
| SC-CUL-6 | LAUSD, consistent with Education Code Section 17545, shall offer for sale any remaining functional and defining features and building materials from the buildings. These materials could include doors, windows, siding, stones, lighting, doorknobs, hinges, cabinets, and appliances, among others. They shall be made available to the public for sale and reuse, if features are not retained by LAUSD for reuse or display. |
| SC-CUL-7 | LAUSD shall retain a qualified archaeologist to be available on-call. The qualified archaeologist shall meet the Secretary of the Interior's Professional Qualifications Standards (48 Federal Register 44738–39). |
| SC-CUL-8 | The contractor shall halt construction activities in the immediate area and notify the LAUSD. LAUSD shall retain a qualified archeologist to make an immediate evaluation of significance and appropriate treatment of the resource. To complete this assessment, the qualified archeologist will be afforded the necessary time to recover, analyze, and curate the find. The qualified archeologist shall recommend the extent of archeological monitoring necessary to ensure the protection of any other resources that may be in the area. Construction activities may continue on other parts of the building site while evaluation and treatment of historical or unique archaeological resources takes place. |

**TABLE 1**
**CULTURAL RESOURCES STANDARD CONDITIONS OF APPROVAL**

| Applicable SCs | Description |
|---|---|
| SC-CUL-9 | LAUSD shall implement an archaeological monitoring program for construction activities at a site prepared by a qualified archaeologist under the following conditions: (1) when a Phase I Site Investigation shows a strong possibility that unique archeological resources are buried on the site; and/or (2) when unique archaeological resources have been identified on a site, but LAUSD does not implement a Phase III Data Recovery/Mitigation Program because the resources can be recovered through the archaeological monitoring program. |
| SC-CUL-10 | All work shall stop within a 30-foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist. The qualified archaeologist shall assess the find(s) and, if it is determined to be of value, shall draft a monitoring program and oversee the remainder of the grading program. Should evidence of prehistoric or historic cultural resources be found the archaeologist shall monitor all ground-disturbing activities related to the proposed project. Any significant archaeological resources found shall be preserved as determined necessary by the archaeologist and offered to a local museum or repository willing to accept the resource. Any resulting reports shall also be forwarded to the South Central Coastal Information Center at the California State University, Fullerton. |
| SC-CUL-11 | Cultural resources sensitivity training shall be conducted by a qualified archaeologist for all construction workers involved in moving soil or working near soil disturbance. This training shall review the types of archaeological resources that might be found, along with laws for the protection of resources. |
| SC-CUL-12 | LAUSD shall determine whether it is feasible to prepare and implement a Phase III Data Recovery/ Mitigation Program. A Phase III Data Recovery/Mitigation Program would be designed by a Qualified Archaeologist to recover a statistically valid sample of the archaeological remains and to document the site to a level where the impacts can be determined to be less than significant. All documentation shall be prepared in the standard format of the ARMR Guidelines, as prepared by the OHP. Once a Phase III Data Recovery/Mitigation Program is completed, an archaeological monitor shall be present on site to oversee the grading, demolition activities, and/or initial construction activities to ensure that construction proceeds in accordance with the adopted Phase III Data Recovery/Mitigation Program. The extent of the Phase III Data Recovery/Mitigation Program and the extent and duration of the archaeological monitoring program depend on site-specific factors. |
| SC-CUL-13 | All work shall stop within a 30-foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist and the local Native American representative has been contacted and consulted to assist in the accurate recordation and recovery of the resources. |
| SC-N-8 | LAUSD shall meet with the construction contractor to discuss alternative methods of demolition and construction for activities within 25 feet of a historic building to reduce vibration impacts. During the preconstruction meeting, the construction contractor shall identify demolition methods not involving vibration-intensive construction equipment or activities. For example: sawing into sections that can be loaded onto trucks results in lower vibration levels than demolition by hydraulic hammers.<br>• Prior to construction activities, the construction contractor shall inspect and report on the current foundation and structural condition of the historic building.<br>• The construction contractor shall implement alternative methods identified in the preconstruction meeting during demolition, excavation, and construction for work done within 25 feet of the historic building.<br>• The construction contractor shall avoid use of vibratory rollers and packers adjacent to a historic building.<br>• During demolition the construction contractor shall not phase any ground-impacting operations near a historic building to occur at the same time as any ground impacting operation associated with demolition and construction of a new building.<br>During demolition and construction, if any vibration levels cause cosmetic or structural damage to a historic building the District shall issue “stop-work” orders to the construction contractor immediately to prevent further damage. Work shall not restart until the building is stabilized and/or preventive measures to relieve further damage to the building are implemented. |

# 4. Methods

## 4.1 Literature Review

### 4.1.1 SCCIC Records Search

A records search for the project site was conducted on December 6, 2017, at the California Historic Resources Inventory System (CHRIS) South Central Coastal Information Center (SCCIC) housed at California State University, Fullerton.[12] The CHRIS SCCIC records search included a review of all recorded historic architectural sites within a quarter-mile radius of the proposed Project, as well as a review of cultural resource reports on file. In addition, to supplement the SCCIC records search, the California Points of Historical Interest (PHI), the California Historical Landmarks (CHL), the California Register, the National Register, and the California State Historic Resources Inventory (HRI) listings were reviewed for properties within or adjacent to the project site. The results of the records search are presented in Chapter 6.

### 4.1.2 Additional Research

Additional research included a review of the *Los Angeles Times* online newspaper database and photo collections accessed through the ProQuest Research Library and Los Angeles Public Library images. ESA also reviewed LAUSD's collection of historical plans on file for the Campus. The results of this additional research have been incorporated into Chapter 5, Historic Setting and Context of this report. A review of historic maps and aerial photographs was also conducted, and the results of this research are provided in the following section.

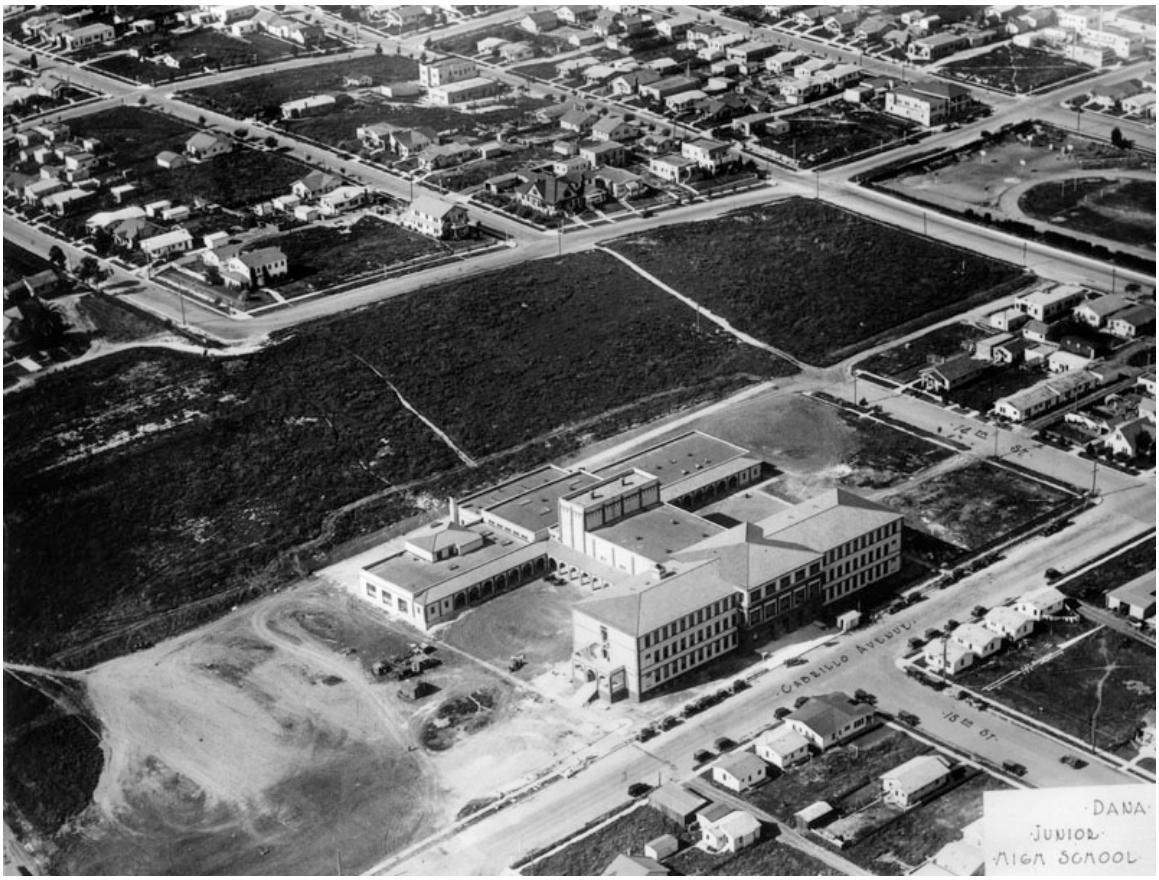
### 4.1.3 Historic Map and Aerial Photo Review

Historic maps were examined to provide historical information about the proposed Project site and vicinity. Reviewed historic topographic maps included the 1896 San Pedro 15-minute topographic quadrangle. Sanborn Fire Insurance maps for the years 1921, 1950, and 1969 were also studied. Historic aerial photographs for the years 1928, 1952, 1960, 1965, and 1971 were obtained from the Los Angeles Public Library and University of California, Santa Barbara archives, and current Google Earth aerial imagery from 2016 were also reviewed.

Review of the 1896 topographic map indicates that the Project site was undeveloped at that time. The Sanborn map review indicates that by 1921 the southern portion of the Project site was developed with nine single-family dwellings near 17th Street. Several other dwellings and structures (a total of six) are also shown in the central portion of the Project site and near 15th Street. Lastly, one single-family dwelling is depicted as located in the northern portion (near 14th Street) of the Project site. A 1928 aerial photograph illustrates the residential neighborhood that existed in the vicinity of the future San Pedro HS Campus (**Figure 10**). Sanborn map review also shows that by 1950, most of the northern portion of the Project site was developed, with single- and multi-family dwellings and some associated detached garages. The central portion of the Project site is depicted as developed with six buildings that comprised San Pedro HS, and the southern portion of the Project site (facing 17th Street) is shown as fully developed with single- and

[12] SCCIC File No. 15983.2090

multi-family dwellings and some associated detached garages. By 1969, the Sanborn map review shows that the northern portion of the Project site continued to be occupied by single-family dwellings; however, by this time some classrooms of San Pedro HS are also shown in this portion of the Project site. The entire central and southern portions of the Project site are depicted as developed with several large buildings that are part of San Pedro HS. Review of current aerial imagery indicates that no residential buildings now exist within the Project site and that the entire Project site is developed with buildings, landscaping, and hardscape for San Pedro HS.




SOURCE: Los Angeles Public Library

**Figure 10**
The residential neighborhood that once existed on the current site of San Pedro HS is shown in the upper left of this photograph, 1928. Dana Junior High School (extant) is shown in the foreground and was constructed east of the high school.

## 4.2 Historic Resources Survey

A historic architectural resources survey of San Pedro HS was conducted by ESA architectural historians Margarita Jerabek, Ph.D., and Amanda Kainer, M.S., in May 2015, as part of the architectural analysis for the CDFM.[13] ESA architectural historian Christian Taylor, M.H.P., conducted a site visit of San Pedro HS on December 8, 2017, to confirm that conditions had not

[13] PCR Services Corp. "Character-Defining Features Memorandum (CDFM) for San Pedro High School, 1001 West 15th Street, San Pedro, California, 90731." June 30, 2015.

changed significantly since the 2015 survey. Detailed notes and digital photographs were taken, and the survey work utilized the survey methodology of the State Office of Historic Preservation.

# 5. Historic Setting and Context

The historic context developed below presents the historical and architectural background of LAUSD and San Pedro HS. Historical themes discussed below that are associated with the establishment, development, and use of San Pedro HS include LAUSD: Founding Years (1870s-1909), LAUSD: Pre-1933 Long Beach Earthquake School Plants (1910-1933), LAUSD: Post-1933 Long Beach Earthquake Schools (1933-1945), and Streamline Moderne Style (1934-1945).

## 5.1 LAUSD: Founding Years (1870s-1909)

The Los Angeles City School District was founded in 1872, shortly before the massive increase in Southern California's population in the 1880s. The boom was brought on by the completion of the transcontinental railroad and the rampant land speculation that accompanied it. The population of Los Angeles jumped from 10,000 to 100,000 within the span of two decades between 1880 and 1900. By 1910, the population reached 320,000. Such extraordinary growth led to a number of problems in the new school district. These included: overcrowding, no uniform curriculum, wildly disparate education levels of incoming students, and a severe lack of funding. Just before the turn-of-the-century, the District was finally granted the authority to sell bonds and was able to raise $200,000 for a desperately needed new building campaign. Through a series of these campaigns, LAUSD was able to construct modern school facilities representative of the new, progressive education movement sweeping through the United States during this period. Los Angeles took great pride in its schools, as residents saw their new facilities and modern teaching methods as part of the city's urban development that helped create a city that could rival San Francisco.[14]

## 5.2 LAUSD: Pre-1933 Long Beach Earthquake School Plants (1910-1933)

The early 20th century was an important period of development for the Los Angeles area. In 1913, the Los Angeles Aqueduct was opened, creating easier access to water for residents while the burgeoning film industry boosted the economy. In the realm of architecture, the University of Southern California began to confer Southern California's first professional degrees in architecture in 1925, establishing Los Angeles as a center of architecture in the region. During this period, the American education system was profoundly influenced by the Progressive Education Movement. This movement brought sweeping change to education and educational facilities around the country. During this time, educators moved away from the authoritarian methods of their predecessors and placed greater emphasis on the teaching of abstract concepts and real life skills. Additionally, the one-size-fits-all mentality of the previous era gave way to a new focus on the needs of the individual student and transformed public schools into centers of community. As the educational method in America changed, the built environment of educational facilities also began to shift to better accommodate the new style of teaching. The writings of John J. Donovan, a

[14] Sapphos Environmental, Inc., *Los Angeles Unified School District: Historic Context Statement, 1870 to 1969* (March 2014): 23-28.

graduate of Massachusetts Institute of Technology who later practiced architecture in Oakland, California, were especially influential during this time. Donovan's book, *School Architecture: Principles and Practices,* was published in 1921 and widely read by architects. Donovan discouraged monumental school buildings, focusing instead on simple and functional designs with low massing, outdoor spaces, and regional or revival styles.[15]

During the 1920s, Southern California was experiencing an unprecedented population boom. Los Angeles County, for example, had experienced an increase of 133.2% in population from the previous decade. Grammar schools in particular were becoming overcrowded. These second-generation school buildings (1910-1933) were of masonry; brick was a popular structural and decorative cladding material, as were hollow clay tile and concrete, the latter often manipulated to resemble stone or other materials. Most often two stories in height, second generation schools were less fortress-like although an institutional appearance was usually maintained. New styles were introduced, including the Romanesque Revival, Italian Renaissance Revival, Spanish Colonial Revival, and Collegiate Gothic Revival. As a rule, the school initially would be planned as a single building, with spaces allocated for standardized classrooms; special kindergarten rooms with toilets *en suite*; principal's and vice principal's offices; and boys' and girls' toilet rooms. Rooms were arrayed off of double-loaded corridors in the most common arrangement, establishing a linear organization to building plans that had been missing in earlier plants. During this period, designers were increasingly concerned with the provision of natural light and fresh air, and as a consequence, another signature element of school design became a regular feature: the repetition of bays of windows often stacked three high. Buildings were either massed as single rectangular units or embellished with wings set perpendicular to the main body of the building, frequently enclosing, all or in part, a courtyard space. Usually auditoriums, or cafeterias if provided, would be located in a wing. Gymnasiums, introduced at the junior high and senior high levels, were housed in separate buildings of more utilitarian design. Similarly, shops were often located in industrial-like buildings, provided with large spaces and open truss roofs.

## 5.3 LAUSD: Post-1933 Long Beach Earthquake Schools (1933-1945)

Although the Great Depression and World War II brought a number of challenges to the district, the schools constructed and reconstructed during the post-earthquake period laid the groundwork for the modern school designs prevalent in the Postwar era. Modernism was still in its early days, but the driving principles of the Modern design ethos had already begun to gain ground in school architecture, beginning in the late 1920s and continued through World War II. Revival styles, so popular in the early decades of the 20th century, were largely eschewed in favor of simple, purpose-driven architecture. New emphasis was placed on honesty in structure and materials, and the function of the building superseded stylistic considerations. Early examples of this type of design include Richard Neutra's Corona Bell Elementary School and Ralph Waldo Emerson High School, both located in Los Angeles. Both of Neutra's designs created an integration of indoor and outdoor spaces, providing light, ventilation, and a sense of freedom within the classroom. Another highly influential school type developed during this period was the finger-plan, created by the firm of

15 Ibid., 29-35.

Franklin & Kump for Acalenes Union High School outside of San Francisco. The finger-plan, based in modular elements, became popular in the Postwar years for its easy construction and expansion. Additionally, this plan type provided excellent natural light, ventilation, and access to outdoor spaces for students.

This kind of experimentation in school architecture, which didn't take a firm hold until after the end of World War II, was partly possibly due to the Long Beach Earthquake in March of 1933. The 6.5 magnitude quake destroyed 40 unreinforced masonry schools within the Los Angeles City School District, and damaged many exterior elements on other school facilities. Many parapets, chimneys, and exterior ornaments were removed either due to damage or for fear they would fall. Indeed, the lack of ornament in Southern California architecture in the 20th century was largely due to concerns about applied ornament falling and causing injuries during an earthquake. Shortly after the disaster, the Field Act was passed, which improved the building codes to insure new construction had better resistance to seismic activity. Many of the new requirements were coincidentally in-line with emerging design principles for educational buildings, such as open plans and single-story structures. An insistence on regional appropriateness remained, but ornament, and therefore many revival styles, was no longer a necessary or desirable part of design.

The forces of depression and war also brought funding to the district, with the Public Works Administration (PWA, later the Works Progress Administration) providing $13 million for schools in Southern California. The PWA funded 70% of all newly constructed schools nationwide in the 1930s. Monetary restrictions only encouraged the move away from the ornate Beaux-Arts Classicism and revival styles, and the PWA building efforts ushered in the era of the Streamline Moderne. World War II saw a restriction in building funds, but school were utilized for a variety of support activities. Among these was the National Defense Training (NDT) program, which pumped $400,000 into Los Angeles schools for vocational training related to the war effort. By 1942, Los Angeles had the largest NDT program in the country. A year after the war concluded a $75 million bond was issued, helping to facilitate a Postwar boom in Los Angeles school construction.[16]

## 5.4 Streamline Moderne Style (1934-1945)

Following the height of Art Deco in the early 1930s, the Streamline Moderne style was an economic and stylistic response to the ravaging effects of the Great Depression. A new style was needed to express optimism and a bright look toward the future. Streamline structures continued to suggest modern values of movement and rejection of historic precedents, but with far less opulence and more restraint than Art Deco of the late 1920s and early 1930s. Yet the Streamline Moderne differed from the "High Art Modern Architecture" of the early 1930s in that it "continued to regard design as 'styling' and that architecture should represent or perform as an image rather than be a used as a space to radically change one's everyday life. The boosters of Streamline Moderne argued that their purpose was not to create an architecture that functioned in the same way as the ocean liner, airplane, or locomotive; rather, the buildings would symbolize those things and therefore remind

16 Ibid., 49-70.

one of the 'modern' future."[17] Streamline Moderne architecture took its cue from the emerging field of industrial design and borrowed imagery from transportation, in particular, the ocean liner.

Popular between 1934 and 1945, CDFs of Streamline Moderne style include horizontally-oriented masses, flat rooflines with coping or flat parapets, smooth stucco or concrete exteriors, relatively unadorned and unornamented surfaces, curved end walls and corners, glass block and porthole windows sometimes used, windows "punched" into walls, flat canopies over entrances, pipe railings used along staircases and balconies, grooved moldings and stringcourses, and steel sash windows.

## 5.5 History of San Pedro High School

The following excerpt is from the 1994 evaluation of San Pedro HS prepared by Historic Resources Group:

> San Pedro High School is the third oldest school in the Los Angeles Unified School District. Classes were first held in 1903 at the corner of 15th and Mesa Streets. In the fall of 1906, the school year commenced in a newly constructed high school building on Gaffey Street between 12th and 13th Streets. Gradually more buildings were constructed until the Campus filled the entire block. In 1909, San Pedro was incorporated into the City of Los Angeles. Consequently, its schools became a part of the Los Angeles Unified School District. During the 1920s, junior high school students left the campus to attend the new Dana Junior High School [located immediately east of the Project site (extant)].
>
> In 1933 the Long Beach Earthquake damaged the buildings of San Pedro High School so severely that a new campus was built on the present site where the Dodson estate had been. Noted Los Angeles architect Gordon B. Kaufmann was commissioned to design the new campus which opened in 1937. A native of Great Britain, Kaufmann moved to Los Angeles in 1914 and formed a partnership with Reginald Johnson and Roland Coate. As a partner in Johnson, Kaufmann and Coate, Kaufmann was the designer of residences and one of the leading purveyors of period revival architecture. In 1925 the partnership dissolved. Kaufmann went on to great individual success as his practice expanded beyond residential architecture, to include large-scale commercial, academic, religious and institutional buildings. Like a number of other talented architects of the time, Kaufmann was forced to shed his preference for period revivalism as Modernism quickly became the more fashionable architectural style. Kaufmann, however, proved to be just as adept at interpreting modern architectural styles as he was historic ones. Indeed, he may be best known for his restrained and sophisticated interpretations of the Moderne, Streamline and P.W.A. styles of which San Pedro High School is one of the finer, extant examples. Similarly styled buildings by Kaufmann include the Los Angeles Times Building (1931-35), the Santa Anita Park Grand Stand (1934), the Federal Building in Long Beach (1931-32), and the Aluminum Company of America Building (1938). Although Kaufmann designed other buildings, namely libraries and dormitories, for other educational institutions such as the California Institute of Technology, Scripps College and Claremont College, San Pedro High School was his only commission for an entire campus. […]
>
> The Campus setting of San Pedro High School and Kaufmann's use of board-formed poured-in-place reinforced concrete are also significant architectural elements of school design in the Los Angeles area. David Gebhard and Harriet von Breton state in *Los Angeles*

[17] Kesling Patrick Pascal, *Modern Structures Popularizing Modern Design in Southern California 1934-1962* (Los Angeles: Balcony Press, 2002): 10.

> *in the Thirties*, "Of all governmental constructions in the L.A. area (and in California as a whole), public school buildings were the most original and inventive in design. Because of earthquake-resistance standards, school buildings were generally of reinforced concrete, and most revealed the patterns of the form boards on their exterior surfaces. The ideal of the open-air school, which in California goes back to 1910, was increasingly used even in the more conservative and monumental schools." […]
>
> Situated on a promontory overlooking the Los Angeles Harbor, San Pedro High School embodies the distinguishing characteristics of the P.W.A. Moderne style with its simplified reinforced concrete walls and poured-in-place bas relief ornamentation. The central facade of the Administration and Classroom Building is typical of the overall design of the Campus in its materials, massing and ornament. The building is two-story and rectangular in plan with a centralized square massing protruding from the rest of the facade to form the main entrance to the building and house the Library within its second story. Six vertical piers are symmetrically positioned on this front facade and cut off just before the roof line. Between the piers and above the second story windows the walls are ornamented by vertical pleats. The spandrels below these windows contain stylized bas relief ornamentation. All of the windows are steel sash and all are original as are the metal and glass main entrance doors, transoms, and side lights. All of the historic buildings of San Pedro High School are [largely] unaltered and all retain remarkable historic architectural integrity. The library on the Second Floor of the Administration Building contains murals depicting harbor workers and are excellent examples of artistic work of the period.

The first buildings constructed on the present campus were the Administration Building (Building 1, **Figure 11**), Home Economics Building (Building 6, **Figure 12**), and Industrial Arts Building (Building 4).[18] Plans were complete for a new Auditorium (Building 5, **Figure 13**) and Gymnasium/Physical Education Building (Building 2 or Old Gymnasium) by 1936.[19] A new Classroom Building (Building 3 or Classroom Building No. 1) soon followed in 1938.[20] In the lead up to America's entrance into World War II, a Shop Building (demolished) constructed specifically for national defense training was erected on Campus (**Figure 14**).[21]

Postwar growth did not truly pick up at San Pedro HS until the 1960s. A Girls' Gymnasium (Building 7) was among the first major postwar building projects, constructed in 1960.[22] An additional Classroom Building No. 2 (Building 8) and a new Food Service Unit (Building 13) went up in 1961.[23] Both of these buildings were designed by William Shinderman, AIA, whose other completed projects include additions to the El Rodeo de Las Aguas Elementary School in 1963 and a remodel of the Los Angeles County/USC Cancer Center in 1977.[24,25] The Industrial Arts Building (Building 4) and Home Economics Building (Building 6) were altered, respectively, in 1965 and

18 LAUSD Drawing Archive, 8850.06.000, July 1, 1935, New Plant – Administration Building and Home Economics and Industrial Arts Building

19 LAUSD Drawing Archive, 8850.07.000, July 1, 1936, New Auditorium and Physical Education Building

20 LAUSD Drawing Archive, 8850.08.000, September 1, 1938, New Classroom Building #1

21 LAUSD Drawing Archive, 8850.09.000, July 1, 1941, Shop Building for National Defense Training

22 LAUSD Drawing Archive, 8850.11.000, June 6, 1960, Girl's Gymnasium Building

23 LAUSD Drawing Archive, 8850.13.000, December 1, 1961, New Classroom #2 & Food Service Unit

24 *Beverly Hills Unified School District.* "Brief History of Our School Facilities." http://www.bhusd.org/apps/pages/index.jsp?uREC_ID=41863&type=d&pREC_ID=50487. Accessed December 26, 2017.

25 "Cancer Lab Completed at County/USC Center." *Los Angeles Times*, October 9, 1977, 277.

1968.[26,27] A new Shop Building (Building 9) was constructed in 1969, as was an addition to the Industrial Arts Building (Building 4).[28] It appears that there were no major new construction efforts on Campus until 2005, with the addition of the New Gymnasium (Building 42).[29]



SOURCE: Los Angeles Public Library, n.d.

**Figure 11**
Administration Building (Building 1) and the Flag Court at San Pedro High School

26 LAUSD Drawing Archive, 8850.14.000, June 1, 1965, Alterations to Industrial Arts Building

27 LAUSD Drawing Archive, 8850.15.000, September 1, 1968, Alteration to Home Economics Building (Enlarge Kitchen & New Faculty Room)

28 LAUSD Drawing Archive, 8850.16.000, November 1, 1969, New Shop Building & Addition to Industrial Arts Building

29 LAUSD Drawing Archive, 8850.26.000, July 29, 2005, Addition: New Gymnasium Building



SOURCE: Los Angeles Public Library, n.d.

**Figure 12**
Home Economics Building (Building 6) at left



SOURCE: Los Angeles Public Library, n.d.

**Figure 13**
Auditorium (Building 5) at San Pedro High School. Buildings 1 and 6 are visible in the left background, and Building 4 is visible in the right background.




SOURCE: McKinzie, 2007

**Figure 14**
Aerial View of San Pedro High School, ca. 1940s.

# 6. Identification of Historical Resources

## 6.1 Historical Resources in the Project Vicinity

The archival records search included a review of previously recorded historic architectural resources within a quarter-mile of the Project which may have views of the Project site for the purpose of analyzing potential indirect impacts to such resources. The archival records search involved review of the SCCIC records search in addition to review of the National Register, California Register, HRI, SurveyLA, HCM, and HistoricPlacesLA.org databases and designation lists to find previously identified historical resources. As a result, ESA identified five previously surveyed buildings within a quarter-mile radius of the Project site. Of the five buildings, two are considered historical resources for the purposes of CEQA, and these are summarized below in **Table 2**: one was not given a status code, and one has been found ineligible at the national level but was not evaluated at the state level (CHR status of 6Y). The Project site is located within a dense, urban setting, with limited visibility. Of the known historical resources, one resource (the Dodson House located at 859 West 13th Street) would have an indirect view of the Project site, and neither would have a direct view.

**TABLE 2**
**HISTORICAL RESOURCES LOCATED WITHIN THE ONE-QUARTER MILE RADIUS OF THE PROJECT SITE**

| Permanent No. (P-19-) | Trinomial (CA-LAN-) | Address | Description | CHR Status Code | Date Recorded | Direct or Indirect View |
|---|---|---|---|---|---|---|
| 19-167248 | N/A | 859 West 13th St | The Dodson House, a Victorian residence constructed in the late 1880s, is LAHCM #147. Relocated to the present site in 1940. The residence is significant for its association with James H. Dodson, a prominent merchant and civic leader of Long Beach, and Rudecinda Sepulveda Dodson. | N/A | January 1977 | Indirect (through trees) |
| 19-188184 | N/A | 1002 S. Gaffey St | AT&T Telecommunication Facility 950-031-012A, constructed in 1925 as an IOOF temple. | 6Y | 10/1/2004 | None |

Sources: HRI (4/5/2012), SurveyLA: Southeast Los Angeles Survey (March 2012), OHR California Historical Landmarks, HistoricPlacesLA.org

## 6.2 Historical Resources on the Project Site

During the 1994 FEMA Survey, San Pedro HS was assigned a California Historical Resource Status Code of "2S2," which means the subject school is an "individual property determined eligible for the National Register by a consensus through the Section 106 process and is listed in the California Register."[30] San Pedro HS was found to be significant under National Register Criterion B for its association with noted Los Angeles architect Gordon B. Kaufmann and under Criterion C as an excellent example of 1930s academic architecture.[31]

For the purposes of the proposed Project and future projects, LAUSD has decided to re-evaluate San Pedro HS as the San Pedro HS Historic District, which is considered to be a historical resource for the purposes of CEQA. By this identification, buildings, structures, and landscape features either contribute or do not contribute to the significance of the Historic District.

### 6.2.1 Integrity Analysis

As previously discussed, the seven factors that define integrity are location, design, setting, materials, workmanship, feeling, and association. To retain historic integrity a property must possess several, and usually most, of these seven aspects. Thus, the retention of the specific aspects of integrity is paramount for a property to convey its significance. The following presents a list of known alterations to each of the contributing buildings and landscape followed by an analysis of integrity for the Historic District.

30 Sapphos Environmental, Inc., *LAUSD Historic Resources Survey Report*, Prepared for LAUSD Office of Environmental Health and Safety (June 2014): 75.

31 Historic Resources Group. DPR 523 form set for San Pedro High School (P-19-175245). December 5, 1994.

- Administration Building (Building 1)
  - Known alterations to this building include:
    - Some window panes have been removed for air conditioning equipment
- Old Gymnasium/Physical Education Building (Building 2)
  - Known alterations to this building include:
    - Awning windows on primary façade have been painted over
    - Two-light hopper windows with transoms have been painted over and removed on north end of primary façade
    - Doors within deeply recessed Streamline Moderne-style door surrounds have been replaced
- Classroom Building No. 1 (Building 3)
  - Known alterations to this building include:
    - Some window panes on the three-over-two windows have been replaced for air conditioning equipment
    - A canopy addition extending from west elevation
    - Interior wood panel doors and transoms have been painted over
- Industrial Arts Building (Building 4)
  - Known alterations to this building include:
    - A rear exterior addition for garage
    - Exterior doors replaced
- Auditorium (Building 5)
  - Known alterations to this building include:
    - Metal security screens have been installed on three sets of wood glazed doors
    - Rows of wood seating with cast iron sides have been painted (interior)
    - Concrete floor on aisles has been replaced (interior)
- Home Economics Building (Building 6)
  - Known alterations to this building include:
    - Some windows have been replaced with vents
    - Interior wood doors and transoms have been painted over
- Site Plan and Landscape Features
  - Known alterations to the landscape include:
    - Some hardscape has been replaced and in some areas repaved with bricks

### *Location*

Location is the place where the historic property was constructed or the place where the historic event took place. Integrity of location refers to whether the property has been moved or relocated since its construction. None of the contributing buildings, structures or landscape identified above have been moved; therefore, the Historic District retains integrity of location.

### *Design*

Design is the composition of elements that constitute the form, plan, space, structure, and style of a property. As evident from the listed alterations above and the CDFs analysis detailed below, the Administration Building (Building 1), Old Gymnasium/Physical Education Building (Building 2), Classroom Building No. 1 (Building 3), Auditorium (Building 5), and Home Economics Building (Building 6) have retained their original design; they have retained their original form, spatial relationships, and major architectural elements that distinguish them as Streamline Moderne-style buildings. The landscaping associated with these buildings reflect their historic designs and retain original spatial relationships with the school buildings and the streets. The form and spatial relationships of the Industrial Arts Building (Building 4) have been altered. Overall, the Historic District retains a high level of integrity with regards to its design.

### *Setting*

Setting is the physical environment of a historic property that illustrates the character of the place. The surrounding area has remained primarily residential; therefore, the Historic District retains integrity of setting.

### *Materials*

Materials are the physical elements combined in a particular pattern or configuration to form the aid during a period in the past. As evident from the listed alterations above and the CDFs analysis detailed below, the Administration Building (Building 1), Old Gymnasium/Physical Education Building (Building 2), Classroom Building No. 1 (Building 3), Auditorium (Building 5), and Home Economics Building (Building 6) have retained the majority of their original materials. Doors and windows are the most prominent features that have been replaced. Overall, the Historic District retains integrity of materials.

### *Workmanship*

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period of history. As evident from the listed alterations above and the CDFs analysis detailed below, the Administration Building (Building 1), Old Gymnasium/Physical Education Building (Building 2), Classroom Building No. 1 (Building 3), Auditorium (Building 5), and Home Economics Building (Building 6) have retained the majority of their original materials and, as such, retain the workmanship of those elements. Doors and windows are the most prominent features that have been replaced. Overall, the Historic District retains integrity of workmanship.

### *Feeling*

Feeling is the quality that a historic property has in evoking the aesthetic or historic sense of a past period of time. The level of integrity maintained with regards to the location, design, setting,

materials, and workmanship all contribute to the integrity of feeling. Those familiar with San Pedro HS in the 1930s would certainly recognize the school upon approaching the Campus from South Leland and West 15th streets. The contributing buildings are visible from the streets and are elevated above street level, and this, in combination with the fact that the Campus still performs its original function as a high school, certainly evokes its historic past. The spatial relationships of the Administration Building (Building 1), the Old Gymnasium/Physical Education Building (Building 2), Classroom Building No. 1 (Building 3), Auditorium (Building 5), and Home Economics Building (Building 6) to the Senior Court and the Flag Court (contributing landscape features) have also been maintained, evoking a sense of past in these quad/courtyard areas. Overall, the Historic District retains integrity of feeling.

### *Association*

Association is the direct link between a property and the event or person for which the property is significant. San Pedro HS continues to function as a high school, and its association as a public institution of learning remains. Overall, the Historic District retains integrity of association.

## 6.3 Evaluation of properties in the Area of Potential Impacts

San Pedro HS was formally determined eligible for the National Register through consensus with the SHPO and automatically listed on the California Register by virtue of a 2004 Section 106 evaluation. San Pedro HS was not evaluated as part of SurveyLA's *Historic Resources Survey Report for the San Pedro Community Plan Area* in 2012, although its significance falls under the theme "Public Schools and the LAUSD, 1876-1980" and subtheme "Post-1933 Long Beach Earthquake, 1933-1945" identified therein. Furthermore, San Pedro HS retains enough integrity to express its historical and architectural associations from its period of significance (1935-1938). A CDFs analysis of the Campus was prepared by PCR in June 2015 utilizing the methodology established by the NPS and codified in Preservation Brief 17, as discussed below. The Administration Building (Building 1), Old Gymnasium/Physical Education Building (Building 2), Classroom Building No. 1 (Building 3), Auditorium (Building 5), and Home Economics Building (Building 6) were determined significant (primary) contributors, as well as the majority of the surrounding landscape. The Industrial Arts Building (Building 4) was found to be contributing (tertiary). As such, San Pedro HS is considered a historical resource pursuant to CEQA.

# 7. Character-Defining Features Analysis

In June 2015, a CDFM for San Pedro HS was prepared by PCR Services Corporation (PCR). A summary of the CDFM is presented below, and some information pertaining to Building 6 has been revised since the CDFM was published. The character-defining features analysis included in the CDFM is a detailed summary of the visual character of San Pedro HS, including the site plan, landscape, buildings, architectural details, materials, finishes and interior spaces, that contribute to the eligibility of San Pedro HS as an individually eligible historical resource. According to NPS Preservation Brief 17, *Architectural Character—Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving their Character*:

> *Character refers to all those visual aspects and physical features that comprise the appearance of every historic building. Character-defining elements include the overall shape of the building, its materials, craftsmanship, decorative details, interior spaces and features, as well as the various aspects of its site and environment."*[32]

The NPS describes the visual characteristics that generally represent CDFs:

> *The major contributors to a building's overall character and embodied in the general aspects of its setting; the shape of the building; its roof and roof features, such as chimneys or cupolas; the various projections on the building, such as porches or bay windows; the recesses or voids in a building, such as open galleries, arcades, or recessed balconies; the openings for windows and doorways; and finally the various materials that contribute to a buildings character.*[33]

The approach to identifying visual character involved the examination of San Pedro HS from afar to understand its overall setting and architectural context; then moving up closer to investigate its materials and the craftsmanship and surface finishes; and lastly, going into and through the buildings to perceive those spaces, rooms and details that comprise its interior visual character.

The landscapes and buildings at San Pedro HS were originally classified as significant, contributing, and non-contributing, with CDFs identified for the individual buildings and landscape features. These terms are generally interchangeable with "primary" (significant), "secondary" (contributing), and "tertiary" (contributing) CDFs, which are commonly used descriptors used at times to inform the design process. The character-defining buildings and landscapes determine the eligibility of the historical resource (San Pedro HS as an individual resource) and, as such, are the most important features to retain. The current effort has determined that the Campus is better defined as a historic district and the buildings and landscape features are either contributing or non-contributing resources. These classifications are analogous to the determinations presented in the CDFM.

Presented in **Table 3** is a summary of the contributing and non-contributing buildings and landscapes to the San Pedro HS Historic District dating from the period of significance that account for its eligibility as a historical resource. Also provided in Table 3 is the year the building was constructed and altered/repaired. The primary period of significance for San Pedro HS is between 1935 and 1938 when the Campus was rebuilt in the Streamline Moderne style. Contributing buildings and landscapes represent the original period of significance, are visually prominent, and retain high integrity. If a building, landscape, or feature is not listed below as contributing, it can be assumed the building, landscape, or feature is non-contributing. The site plan presented as **Figure 15** visually depicts the contributing buildings and landscapes of the Historic District.

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32 Lee H. Nelson, *Preservation Brief 17: Architectural Character—Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving their Character*, National Park Service, September 1988, http://www.nps.gov/tps/how-to-preserve/briefs/17-architectural-character.htm. Accessed June 4, 2015.

33 Lee H. Nelson, *Preservation Brief 17: Architectural Character—Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving their Character*, National Park Service ("NPS"), September 1988, http://www.nps.gov/tps/how-to-preserve/briefs/17-architectural-character.htm, accessed June 4, 2015, pp. 1-2.

**TABLE 3**
**SAN PEDRO HS CAMPUS BUILDINGS AND LANDSCAPE**

| Current Building Name (Building Number and/or ID) [a, b] | Year Constructed [c] | Alterations/ Repairs | Historic Status |
|---|---|---|---|
| Site Plan and Landscape | Ca. 1935 | Unknown | Contributing |
| Administration Building (Building 1, ID 22037) | Ca. 1935, 1997 | Ca. 1964, 1981, 1997, 2013 | Contributing |
| Old Gymnasium/Physical Education Building (Building 2, ID 22223) | Ca. 1936 | 2010 | Contributing |
| Classroom Building No. 1 (English Building) (Building 3, ID 31223) | Ca. 1938 | 1981, 2013 | Contributing |
| Industrial Arts Building (Building 4, ID 21993) | Ca. 1935 | 1965, 1969 | Contributing |
| Auditorium (Building 5, ID 22080) | Ca. 1936 | Unknown | Contributing |
| Home Economics Building (Cafeteria) (Building 6, ID 21037) | Ca. 1935 | 1968, 1981, 2013 | Contributing |
| Girls' Gymnasium (Building 7, ID 20816) | Ca. 1960 | Unknown | Non-Contributing |
| Classroom Building No. 2 (Science Building) (Building 8, 20685) | Ca. 1961 | 1999 | Non-Contributing |
| Shop Building (Building 9, ID 21093) | Ca. 1969 | Unknown | Non-Contributing |
| Lunch Shelter (Building 10, ID 21892) | Ca. 1941 | Unknown | Non-Contributing |
| Arcade 1 (ID 53263) | Unknown | Unknown | Non-Contributing |
| Arcade 2 (ID 53282) | Unknown | Unknown | Non-Contributing |
| Arcade 3 (ID 53283) | Unknown | Unknown | Non-Contributing |
| Arcade 4 (ID 54867) | Ca. 1964 | Unknown | Non-Contributing |
| Arcade 5 (ID 54868) | Ca. 1964 | Unknown | Non-Contributing |
| Food Service Unit (Building 13, ID 22117) | Ca. 1961 | Unknown | Non-Contributing |
| Flammable Storage (ID 21897) | Ca. 1953 | Unknown | Non-Contributing |
| Portable BB-182 (ID 22898) | Ca. 1973 | Unknown | Non-Contributing |
| Portable A-2241 (Building 38, ID 21833) | Ca. 1999 | Unknown | Non-Contributing |
| Portable A-2281 (ID 22515) | Unknown | Unknown | Non-Contributing |
| Portable AA-1007 (ID 22385) | Ca. 1950 | Unknown | Non-Contributing |
| Portable AA-2082 (ID 21557) | Ca. 1960 | Unknown | Non-Contributing |
| Kiosk (ID 36342) | Unknown | Unknown | Non-Contributing |
| New Gymnasium (Building 42, ID 29254) | Ca. 2005 | Unknown | Non-Contributing |
| Grandstand (home) (Building 36, ID 31242) | Ca. 2009 | Unknown | Non-Contributing |
| Grandstand (visitor) (ID 31243) | Ca. 2009 | Unknown | Non-Contributing |
| Electrical Building (ID 53302) | Unknown | Unknown | Non-Contributing |
| Sanitary Building 1 (ID 26248) | Ca. 2000 | Unknown | Non-Contributing |
| Sanitary Building 2 (ID 29186) | Ca. 2000 | Unknown | Non-Contributing |
| Snack Shack (ID 53303) | Unknown | Unknown | Non-Contributing |

NOTES:
a. Building numbers correspond to the numbering system shown in architectural drawings dated September 11, 2017.
b. ID numbers were provided by LAUSD.
c. Construction dates, if known, confirmed by PCR/ESA.

SOURCE: LAUSD, June 2017 and February 2018.

Contributing Landscape

Contributing Building

W 14th Street

W 15th Street

17th Street

Alma Street

S. Leland Street

FOURTEENTH STREET

FIFTEENTH STREET

SEVENTEENTH STREET

1 ADMINISTRATION BUILDING

2 PHYSICAL EDUCATION

3 CLASSROOM JF

4 INDUSTRIAL ARTS BUILDING

5 AUDITORIUM

7 CLASSROOM JG

8 CLASSROOM JD

9 SHOP BUILDING

10 HOME ECONOMICS BUILDING

13 CLASSROOM JE

36 HOME GYMNASIUM

38 RELOCATABLE BUILDING

BASEBALL FIELD

TURF

(TURF ALSO USED BY DANA JUNIOR HIGH SCHOOL)

VICTORY ARCH

FOOTBALL / SOCCER FIELD TURF

SOFTBALL FIELD TURF

TURF PRACTICE AREA

SHOT PUT

LONG JUMP

PARKING AREA

[DANA JUNIOR HIGH SCHOOL PROPERTY]

Not to Scale

D:\607789.02 - LAUSD San Pedro Comp Mod\05 Graphics-GIS-Modeling\HRTR Figures\Illustrator

SOURCE: LAUSD, 2002; PCR Services Corp., 2015; ESA, 2018.

San Pedro High School Comprehensive Modernization Project

**Figure 15**
Contributing Buildings and Landscapes Note that the base drawing reflects 2015 site conditions

ESA

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## 7.1 Site Plan and Landscape Features

- Central courtyard in front of Building 1 anchors campus plan and includes concrete hardscape and curbing, octagon-shaped grass areas, flagpole with sculptural concrete base, light poles, and stairs to lower athletic field terrace. Concrete walkway acts as a north-south axis and vista connecting 15th Street to 17th Street.
- Landscape, hardscape and stairs to the north of Buildings 6 and 1 fronting West 15th Street
- Courtyard to the rear (west) of Building 1
- Landscaping, hardscape, and trees in front of (west side) and surrounding the secondary elevations of Auditorium (Building 5)
- Terraced site plan
- Concrete "Victory Arch" monument in football field. Bronze plaque on monument stating "Victory Arch, San Pedro High School, presented by Joseph N. Mardesich, 1937, Rededicated 1987"

## 7.2 Administration Building (Building 1)

### Exterior

- Reinforced concrete construction with smooth exterior concrete finish
- Rectangular plan and massing with rounded corners
- Two-story
- Flat roof
- Projecting and elevated entrance bay creates emphasis on vertical axis
- Streamline Moderne style architectural details, such as minimal decoration, Classical symmetry, stucco exterior, recessed windows, and simplified Classical elements such as reeded panels, pilasters, and reliefs.
- Piers separating recessed window channels on entrance
- Reeded panels and reliefs placed between piers on entrance
- Semi-circular oriel window on side (north) elevation
- Concrete stairs and railing
- Groupings of two-light awning windows and three-over-two windows

### Interior

- Circulation plan
- Wood paneled doors and transoms *(alteration, infilled)*
- Water fountain niches

- Rounded corners in lobby and corridors (some corners reeded in lobby)
- Wood window and door frames
- Stairwells
- Nine oil paintings on canvas affixed to walls of library on 2nd floor depicting early industrial life of San Pedro. Signed by Tyrone Comfort and dated 1937
- Wood crown molding

## 7.3 Old Gymnasium/Physical Education Building (Building 2)

### Exterior

- Reinforced concrete construction with smooth exterior concrete finish
- Varied roof heights
- Curved parapet of gymnasium
- Height of gymnasium creates emphasis on vertical axis
- U-shape plan with one and two-stories
- Rectangular Massing with rounded corners
- Reeded piers separating recessed window channels
- Fenestration: awning windows and two-light hopper window with transom
- Deeply recessed Moderne door surrounds

## 7.4 Classroom Building No. 1 (Building 3)

### Exterior

- Reinforced concrete construction with smooth exterior concrete finish
- Rectangular plan and massing with rounded corners
- Two-story
- Flat roof
- Semi-circular multi-light metal-framed window projection on east elevation
- Three-over-two windows
- Reeded piers separating recessed window channels
- Reeded panels between windows on north elevation
- Rounded corners of corridor and bridge connecting Buildings 3 and 1

### Interior

- Circulation plan
- Stairwells

- Wood panel doors and transoms
- Wood doors and transoms

## 7.5 Industrial Arts Building (Building 4)

### Exterior

- Rectangular plan
- Smooth wall surfaces
- Flat roof
- Multi-light metal-framed awning windows and three-over-two windows

## 7.6 Auditorium (Building 5)

### Exterior

- Rectangular plan with bow-fronted entrance
- Reeded piers separating recessed window channels on entrance
- Relief panels on entrance
- Smooth wall surfaces
- Three sets of wood glazed doors with original hardware covered by one round awning
- Original lights affixed under awning
- Terra-cotta concrete stairs mirroring bow-front
- Three tall decorative screens
- Auditorium set-back behind landscape with rectangular flower bed
- Side elevations ornamented with panels and curved awnings under roofline
- Basement apparent on north elevation has metal railings and wood hopper windows

### Interior

- Foyer
  - Concrete floors and baseboards
  - Water fountain niches
  - Wood paneled doors
  - Fluted niches with on east wall
  - Wood crown molding and decorative wood molding on walls
  - Brass pendant lights
  - Ticket booth with decorative screen

- Auditorium
  - Paneling on ceiling and walls
  - Pendant lights
  - Proscenium
  - Rows of wood seating with cast iron sides
  - Concrete floors underneath seating

## 7.7 Home Economics Building (Building 6)

### Exterior

- Two-story with one-story curved wings on north and south elevations
- Smooth wall surfaces
- Streamline Moderne-style architectural details
- Rounded and reeded corners
- Reeded piers separating recessed window channels
- Two-over-two, three-over-two, and three-over-three windows
- Slightly recessed window and door surrounds
- Glazed wood doors original hardware
- Open bridge connecting Buildings 1 and 6

### Interior

- Circulation plan
- Stairwells
- Wood doors and transoms

# 8. Project Impacts Assessment

## 8.1 Significance Thresholds

The thresholds for determining the significance of environmental effects on historical resources identified below are derived from the CEQA Guidelines as defined in §15064.5. Pursuant to this guidance, a project that would physically detract, either directly or indirectly, from the integrity and significance of the historical resource such that its eligibility for listing in the California Register would no longer be maintained, is considered a project that would result in a significant impact on the historical resource. Adverse impacts, that may or may not rise to a level of significance, result when one or more of the following occurs to a historical resource: demolition, relocation, conversion, or alteration, or new construction on the site or in the vicinity.

### 8.1.1 CEQA Guidelines

According to the State *CEQA Guidelines*, Section 15064.5(b) a project involves a "substantial adverse change" in the significance of the resource when one or more of the following occurs:

- Substantial adverse change in the significance of an historical resource means physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired.

- The significance of a historical resource is materially impaired when a project:

  A. Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for inclusion in, the California Register of Historical Resources; or

  B. Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to Section 5020.1(k) of the PRC or its identification in a historical resources survey meeting the requirements of Section 5024.1(g) of the PRC, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or

  C. Demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for inclusion in the California Register of Historical Resources as determined by a lead agency for purposes of CEQA.

Under CEQA, a proposed development must be evaluated to determine how it may impact the potential eligibility of a structure(s) or a site for designation as a historic resource. A project that is not compliant with the SOI Standards does not automatically result in significant impacts with regards to the CEQA thresholds. However, a project that complies with the *Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings* (Standards) (Weeks and Grimer, 1995) is considered to have mitigated its impacts to historical resources to a less-than-significant level (*CEQA Guidelines* Section 15064.5(b)(3)).

## 8.2 Secretary of the Interior Standards for Rehabilitation Analysis

This section presents the findings of the SOI Standards for Rehabilitation analysis.

**Rehabilitation Standard No. 1:** *A property will be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces and spatial relationships.*

- *Contributing Buildings 1, 2, 3, 5, and 6*

  The Administration Building (Building 1) would continue to be used as it was historically, namely as offices, classrooms, and a library. The modernization of the Old Gymnasium/ Physical Education Building, Classroom Building No. 1, Auditorium, and Home Economics

Building does not involve changes in use. Therefore, the proposed would comply with Standard No. 1.

- *Industrial Arts Building (Building 4)*

  The Industrial Arts Building—a contributor to the Historic District—will be demolished. Therefore, this aspect of the proposed Project would not comply with Standard No. 1.

- *Site Upgrades and Landscape Design*

  The Senior Court (the formally landscaped area on the west side of Building 1) is a contributing landscape feature that is proposed to be demolished and replaced with a reconfigured courtyard. As explained in *the Final Schematic Design Memorandum for the Record:*

  > The primary historic significance of the existing Senior Court is in its general configuration: a rectangular space with axial and symmetrical access/stairs joining the various elevations of the surrounding buildings. The proposed design retains the rectangular configuration, and retains the axiality and symmetry of stairs to a large extent. The primary deviation from this is the position of the stairs on the north and south sides, which are located off the centerline of the Senior Court to more reasonably relate to the functional circulation plan, and to allow for disabled access ramps to be included in the design. The new configuration does retain the symmetry of the stairs, however. […] Though the original design was more formal, the interior layout of the court was, and is, less significant than the overall formality of the court (the overall shape, its axiality, and the symmetry of access to the court).[34]

  Because the significance of the Senior Court lies in the configuration of its features and not the features themselves, the proposed alterations to the Senior Court would not result in substantial changes to distinctive materials, features, spaces, or spatial relationships. Other contributing landscape elements to the Historic District would be preserved. Furthermore, the site upgrades and landscape design do not involve a change in use and therefore comply with Standard No. 1.

- *Proposed Demolition and New Construction*

  The new construction in the Historic District would continue to support its use as a high school, and the buildings proposed to be removed would not impact the Historic District to the extent that it would no longer be eligible. Therefore, this aspect of the proposed Project would comply with Standard No. 1.

  The Campus would continue to be used as a high school; therefore, the proposed Project would comply with Rehabilitation Standard No. 1.

**Rehabilitation Standard No. 2:** *The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces and spatial relationships that characterize the property will be avoided.*

[34] Steven Fader Architects. "Final Design Memorandum for the Record, San Pedro High School Comprehensive Modernization Project." September 8, 2017.

- *Administration Building (Building 1)*

  Most of the CDFs of the Administration Building would be retained and rehabilitated. The stairwells and concrete stairs would remain in place. The decorative murals in the library would be removed and stored to protect them during construction and then reinstalled. The corridor configuration would remain the same; however, some interior walls on the first and second floors would be demolished to resize the classrooms and offices. The basement would also be reconfigured to accommodate new facilities offices and storage space. As a result, the modernization of Administration Building (Building 1) is largely compliant with Standard No. 2.

- *Old Gymnasium/Physical Education Building (Building 2)*

  The exterior CDFs of the Old Gymnasium/Physical Education Building (Building 2) would be retained and rehabilitated. The building's exterior would be cleaned and repainted, and two new ramps would be constructed on the east (secondary) façade as part of the proposed Project. The ramps would not be significantly, visually intrusive. The proposed modifications to the building's interior would not remove any distinctive materials or alter features, spaces, or spatial relationships that characterize the building or the campus. As a result, the modernization of the Old Gymnasium/Physical Education Building (Building 2) is in compliance with Standard No. 2.

- *Classroom Building No. 1 (Building 3)*

  Most of the CDFs of the Classroom Building No. 1 would be retained and rehabilitated. The stairwells and concrete stairs would remain in place. The corridor configuration would remain the same; however, some interior walls on the first and second floors would be demolished to resize the classrooms and offices. The breezeway connecting the Classroom Building No. 1 (Building 3) with the Administration Building (Building 1) would be retained. The Classroom Building No. 1 (Building 3) will be cleaned and repainted as part of the proposed Project. As a result, the modernization of the Classroom Building No. 1 (Building 3) is largely compliant with Standard No. 2.

- *Industrial Arts Building (Building 4)*

  This building—a contributor to the Historic District—would be demolished and therefore this aspect of the Project would not comply with Standard No. 2.

- *Auditorium (Building 5)*

  No structural changes are proposed for the Auditorium (Building 5). Interior alterations include ADA access improvements, and the exterior will be cleaned and repainted. As a result, the modernization of the Auditorium (Building 5) is in compliance with Standard No. 2.

- *Site Upgrades and Landscape Design*

  As described above under Standard No. 1, the Senior Court is a contributing landscape feature that is proposed to be demolished and replaced with a reconfigured courtyard. Because the significance of the Senior Court lies in the formal configuration of its features and not the features themselves, the proposed alterations to the Senior Court (which would essentially retain the formal rectangular configuration, axiality, and symmetry of the historic courtyard

while replacing materials and features that would enhance functionality) would be generally compatible with the historic character of the campus.[35]

There are no significant changes proposed to other contributing landscape elements on the San Pedro HS Campus. Site upgrades and landscape improvements would not result in the removal of any distinctive materials or alterations of features, spaces, or spatial relationships that characterize the Campus. This aspect of the Project is compliant with Standard No. 2.

- *Proposed Demolition and New Construction*

  The proposed demolition of the Industrial Arts Building (Building 4)—a contributor to the Historic District—would result in the loss of historic fabric and, therefore, the loss of historic character. This aspect of the Project does not comply with Standard No. 2. However, the loss of the Industrial Arts Building would not impact the Historic District to the extent that it would no longer be eligible.

  As discussed in detail above, some aspects of the proposed Project do not comply with Standard No. 2; however, the historic character of the majority of the contributors to the Historic District would be retained and preserved and the Historic District would remain eligible. Therefore, the Project would largely comply with Standard No. 2.

**Rehabilitation Standard No. 3:** *Each property will be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historical properties, will not be undertaken.*

- *Contributing Buildings 1, 2, 3, 5, and 6*

  These contributing buildings will be preserved in place. No conjectural features or elements from other historical properties are proposed to be added that would create a false sense of history. Exterior alterations largely include those related to access and will add or modify ramps and stairs to remove barriers. The windows would be restored and repaired where needed on all of the buildings; replacement in-kind will be done where necessary, but is not considered creating a false sense of history. The interior alterations of these buildings would improve access and functionality and would not include alterations or additions that could create a false sense of history. This aspect of the Project would comply with Standard No. 3.

- *Site Upgrades and Landscape Design*

  As described above under Standard No. 1, some modifications will be made to the contributing landscape elements, namely the Senior Court. Because the significance of the Senior Court lies in the configuration of its features and not the features themselves, the proposed alterations to the Senior Court (which would essentially retain the formal rectangular configuration, axiality, and symmetry of the historic courtyard) would not create a false sense of historical development.[36] There are no significant changes proposed to other contributing landscape elements in the Historic District. The proposed Project would include the addition of a Japanese garden, a landscape feature that the LAUSD believes once existed on the San Pedro HS Campus but is no longer extant. To date, LAUSD has found no documentary evidence of the location

35 Steven Fader Architects. "Final Design Memorandum for the Record, San Pedro High School Comprehensive Modernization Project." September 8, 2017.

36 Steven Fader Architects. "Final Design Memorandum for the Record, San Pedro High School Comprehensive Modernization Project." September 8, 2017.

or design of the earlier Japanese garden.[37,38] The new Japanese garden would be a new intervention that would be compatible with its setting and would not create a false sense of historical development. This aspect of the Project would comply with Standard No. 3.

- *Proposed Demolition and New Construction*

  The proposed demolition of the Industrial Arts Building (Building 4), a contributor to the Historic District, would not create a false sense of historical development of San Pedro HS. While the designs of the proposed new Buildings A and B have drawn inspiration from the Streamline Moderne style exhibited by the historic buildings on the campus, they are clearly contemporary buildings and would not create a false sense of historical development. This aspect of the Project would comply with Standard No. 3.

**Rehabilitation Standard No. 4:** *Changes to a property that have acquired significance in their own right will be retained and preserved.*

Standard No. 4 is not applicable to this Project, as there are no contributing buildings or landscape features that have attained significance after the original period of significance of 1935-1938.

**Rehabilitation Standard No. 5:** *Distinctive materials, features, finishes and construction techniques or examples of craftsmanship that characterize a property will be preserved.*

- *Buildings 1, 3, and 6*

  Based upon the "100% Design Development" drawings, the modernization of the Administration Building (Building 1), Classroom Building No. 1 (Building 3), and the Home Economics Building (Building 6)—all contributors to the Historic District—would require the removal of interior CDFs, specifically the wood paneled doors and transoms (Buildings 1, 3, and 6) and wood windows and doors, water fountain niches, and wood crown molding (Building 1). Circulation plans and stairwells will be retained in all three buildings, and the decorative murals located in the second floor library of the Administration Building (Building 1) would be removed, stored, and reinstalled upon completion of the retrofit. While the preservation of interior CDFs is important, the exterior of these buildings will remain largely intact with repairs to the exterior walls and windows as necessary and the addition of access ramps. As a result, the modernization of Administration Building (Building 1), Classroom Building No. 1 (Building 3), and the Home Economics Building (Building 6) is largely compliant with Standard No. 5.

- *Old Gymnasium/Physical Education Building (Building 2)*

  The proposed Project will include painting the Old Gymnasium/Physical Education Building (Building 2); the distinctive materials, features, finishes, and examples of craftsmanship that characterize the exterior will be retained. No interior CDFs were identified. Therefore, this aspect of the Project would comply with Standard No. 5.

37 Email from Will Meade (LAUSD) to Arabesque Abdelwahed (ESA). "Re: San Pedro Existing Structures," January 25, 2018.

38 ESA. *Initial Study for San Pedro High School Comprehensive Modernization Project.* Prepared for Los Angeles Unified School District, September 28, 2017, pp. 28-29.

- *Auditorium (Building 5)*

  The proposed changes to the exterior include the cleaning and repainting of walls, doors, windows, louvers, frames, vents, and trim and the construction of two new ramps. Interior changes include replacing one set of stairs with a new wheelchair lift near the stage, remodeling the existing restrooms for ADA accessibility, installing one new row of seating at the front and at the rear of the auditorium, and reconditioning or replacing damaged seating. The proposed Project would preserve both the exterior and interior CDFs. As such, the proposed Project elements for the Auditorium are compliant with Standard No. 2.

- *Site Upgrades and Landscape Design*

  As described under Standard No. 1, the Senior Court is a contributing landscape feature that is proposed to be demolished and replaced with a reconfigured courtyard. Because the significance of the Senior Court lies in the configuration of its features and not the materials, features, and finishes themselves, the proposed alterations to the Senior Court (which would essentially retain the formal rectangular configuration, axiality, and symmetry of the historic courtyard while replacing materials and features that would enhance functionality of the courtyard) would be generally compatible with and would largely preserve the historic character of the Historic District, which would continue to be eligible.[39]

  The configuration of the Senior Court and distinctive materials, features, finishes, and construction techniques that characterize the other significant (primary) landscape features will be retained. This aspect of the Project would comply with Standard No. 5.

- *Proposed Demolition and New Construction*

  The proposed demolition of the Industrial Arts Building (Building 4), a contributor to the potential Historic District, would result in the removal of materials, features, finishes and construction techniques, and/or examples of craftsmanship that characterize the property. This aspect of the proposed Project would not comply with Standard No. 5; however, the majority of the contributing buildings and landscape elements would be retained and rehabilitated.

  The majority of the distinctive materials, features, finishes, and construction techniques or examples of craftsmanship that characterize the Historic District would be retained and preserved; therefore, the Project would largely comply with Standard No. 5.

**Rehabilitation Standard No. 6:** *Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature will match the old in design, color, texture, and, where possible, materials. Replacement of missing features will be substantiated by documentary and physical evidence.*

- *Modernization and Seismic Retrofits of Contributing Buildings 1, 2, 3, 5, and 6*

  Based upon the project description, exterior CDFs of the Administration Building (Building 1), Old Gymnasium/Physical Education Building (Building 2), Classroom Building No. 1 (Building 3), Auditorium (Building 5), and Home Economics Building (Building 6) would be retained and repaired under the Project. This would include cleaning and repainting the walls, doors, windows louvers, frames, vents, and trim of these buildings. However, within their

[39] Steven Fader Architects. "Final Design Memorandum for the Record, San Pedro High School Comprehensive Modernization Project." September 8, 2017.

interiors, the spatial configuration of these buildings (with the exception of the Auditorium) would be reorganized and many of the interior finishes, utilities, and technologies would be replaced and updated to current standards. Deteriorated interior CDFs that have been identified to be repaired include selective reconditioning of damaged seating in the Auditorium, while other seats will be replaced. This aspect of the Project would partially comply with Standard No. 6.

- *Site Upgrades and Landscape Design*

  With the exception of the demolition and reconfiguration of the Senior Court, all other contributing landscape elements would be preserved. Landscape improvements may include repair or replacement of irrigation systems including lawn sprinklers and sprinkler controls, trees, shrubs, and other vegetation; landscaping plant material; utilitarian landscape components, such as sprinkler piping; and fencing and freestanding exterior walls. The Project would also remove 121 trees on the Project site, and none are protected trees. This aspect of the Project would partially comply with Standard No. 6.

- *Proposed Demolition and New Construction*

  Standard No. 6 does not apply to this aspect of the proposed Project.

**Rehabilitation Standard No. 7:** *Chemical or physical treatments, if appropriate, will be undertaken using the gentlest means possible. Treatments that cause damage to historic materials will not be used.*

No chemical and physical treatments that could be potentially harmful to historic resources have been identified as part of the Project. Per LAUSD's Standard Conditions, specifically SC-CUL-2, the Historic Architect shall ensure the proper treatment methods are undertaken to ensure the work would comply with the objectives of Standard No. 7.

**Rehabilitation Standard No. 8:** *Archeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measure will be undertaken.*

- *Modernization and Seismic Retrofits of Contributing Buildings 1, 2, 3, 5, and 6*

  Standard No. 8 is not applicable to this aspect of the Project.

- *Site Upgrades and Landscape Design*

  As part of the site upgrades and landscape elements of the proposed Project, there could be ground disturbance. As recommended in the Archaeological and Paleontological Resources Report, the Project requires compliance with SC-CUL-7 through SC-CUL-13 in order to reduce impacts of the proposed Project to less than significant. These measures include retention of an on-call qualified archaeologist, implementation of an archaeological resources monitoring program, halting and re-directing work in the event of a discovery until it is evaluated for significance, cultural resources sensitivity training, and Phase III Data Recovery/Mitigation Program in the event that a significant resource is discovered and cannot be avoided. After implementation of these conditions, this aspect of the Project would comply with Standard No. 8.

- *Proposed Demolition and New Construction*

  As part of the proposed demolition and new construction at San Pedro HS, there would be ground disturbance. As recommended in the Archaeological and Paleontological Resources Report, the Project requires compliance with SC-CUL-7 through SC-CUL-13 in order to reduce impacts of the proposed Project to less than significant. These measures include retention of an on-call qualified archaeologist, implementation of an archaeological resources monitoring program, halting and re-directing work in the event of a discovery until it is evaluated for significance, cultural resources sensitivity training, and Phase III Data Recovery/Mitigation Program in the event that a significant resource is discovered and cannot be avoided. After implementation of these conditions, this aspect of the Project would comply with Standard No. 8.

**Rehabilitation Standard No. 9:** *New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work shall be differentiated from the old and will be compatible with the historic materials, features, size, scale and proportion, and massing to protect the integrity of the property and environment.*

- *Contributing Buildings 1, 2, 3, 5, and 6*

  The proposed Project does not include new additions to contributing buildings. Exterior work is limited to cleaning and painting walls, doors, windows, louvers, frames, vents, trim, and flashing and would not destroy historic materials, features, and spatial relationships that characterize San Pedro HS. Related new construction includes exterior access ramps for Buildings 2 and 5, and these ramps would be differentiated from and compatible with the historic buildings. Interior alterations to contributing buildings include demolition of walls and reconfiguration of interior spaces to enhance functionality; this aspect of the Project would result in the removal of some historic materials. However, despite the extent of the interior alterations to contributing buildings, the essential form and integrity of the Historic District and its environment would be retained. This aspect of the Project would comply with Standard No. 9.

- *Site Upgrades and Landscape Design*

  As described above, despite demolition and reconfiguration of the Senior Court, all contributing landscape elements would be preserved, and historic materials, features, and spatial relationships that characterize the Historic District will not be destroyed. Landscape improvements may include repair or replacement of irrigation systems including lawn sprinklers and sprinkler controls, trees, shrubs, and other vegetation; landscaping plant material; utilitarian landscape components, such as sprinkler piping; and fencing and freestanding exterior walls. The Project would also remove 121 trees on the Project site, and none are protected trees. This aspect of the Project would comply with Standard No. 9.

- *Proposed Demolition and New Construction*

  The proposed demolition of the Industrial Arts Building (Building 4), a contributor to the Historic District, would remove the materials, features, finishes, and construction techniques that characterize that building. However, all other contributing buildings and landscape features that contribute to the significance of the Historic District would be retained. All other buildings proposed to be demolished are non-contributors to the Historic District, and their removal would not affect the integrity of the historic district.

The two new buildings—Buildings A and B—will be constructed on the sites of the buildings slated for demolition. Building A will be constructed on the site currently occupied by Buildings 4 (contributing), 9, 38, and Portable AA-2082 (all non-contributing). Building B will be constructed on the site currently occupied by Buildings 10 and 13 (both non-contributing). New construction will not destroy historic materials, features, and spatial relationships that characterize the Campus, especially the landscape features that showcase the individual buildings.

The scale, proportion, and massing of the two new buildings is compatible with the scale, proportion, and massing of the Historic District. The new buildings are rectilinear in plan and elevation, which is consistent with the contributing buildings. Building A is three stories in height and will be built into the terraced landscape. Part of the first story will be constructed below grade. Building A will appear as a two-story building when viewed from the west and south. Building B is two stories in height. The other contributing buildings on Campus range in height from one story with a taller volume (Buildings 2 and 5) to two stories with the first story partially constructed below grade, therefore appearing as a one-story building from certain directions (Building 3), to two stories over basement (Buildings 1 and 6). Generally, the new construction is compatible with the scale, proportion, and massing of the Historic District.

Lastly, the designs of the two new buildings are inspired by the historic Streamline Moderne architecture on the Campus through the use of horizontal bands of windows and trim, flat roofs, and smooth plaster and concrete finishes. The incorporation of some Streamline motifs creates compatibility with the Historic District, yet the modern interpretation of these elements creates sufficient differentiation in order to avoid creating a false sense of history and to protect the integrity of the Historic District. Additionally, the incorporation of modern materials such as metal panels and perforated aluminum screens create further differentiation from the contributing buildings. The exterior paint colors, which are not specified in architectural drawings, were described in a Design Development Memorandum for the Record dated September 6, 2017, as showing "a clear differentiation between the old buildings and the new, but are clearly related. The historic buildings are to be repainted close to their current (and possibly historic) colors, while the new buildings will apply the same colors in a less saturated tint."[40]

For these reasons, this aspect of the Project would comply with Standard No. 9.

**Rehabilitation Standard No. 10:** *New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.*

- *Contributing Buildings 1, 2, 3, 5, and 6*

  The proposed Project does not include new additions to these contributing buildings. Related new construction includes exterior access ramps for Buildings 2 and 5, and these could be removed in the future with little or no impact to the historic buildings. Interior alterations to contributing buildings include demolition of walls and reconfiguration of interior spaces to enhance functionality, and these extensive alterations would not be easily reversible. However, despite the extent of the interior alterations, the essential form and integrity of the Historic

[40] Steven Fader Architects. "Design Development Memorandum for the Record, San Pedro High School Comprehensive Modernization Project." September 6, 2017.

District and its environment would be unimpaired. This aspect of the Project would comply with Standard No. 10.

- *Site Upgrades and Landscape Design*

  The Senior Court, a contributing landscape feature, would be demolished and reconfigured as part of the Project, and all other contributing landscape elements would be preserved. As described above, the significance of the Senior Court lies in the formal configuration of its features and not the features or materials themselves. If the new Senior Court is removed in the future, the spatial relationships of the remaining buildings and landscape features that are contributors to the Historic District would not change, and the essential form and integrity of the Historic District and its environment would be minimally impaired. This aspect of the Project would largely comply with Standard No. 10.

- *Proposed Demolition and New Construction*

  The proposed construction of Buildings A and B would be freestanding and located to the south and north of the Auditorium (Building 5), respectively. The new Central Plant would be located on part of the Campus that is currently vacant. If removed in the future, the buildings and landscape features that contribute to the Historic District would be retained, and the Historic District would continue to be eligible. Therefore, this aspect of the Project would comply with Standard No. 10.

## 8.3 Impact Analysis

### 8.3.1 Direct Impacts

San Pedro HS was determined individually eligible for inclusion in the National Register through consensus and is listed in the California Register because it is associated with noted Los Angeles architect Gordon B. Kaufmann (National Register Criterion B) and embodies the distinctive characteristics of the Streamline Moderne style of academic architecture (Criterion C). San Pedro HS retains integrity of setting, design, materials, workmanship, location, feeling, and association from its period of significance (1935-1938).

Through subsequent analysis, San Pedro HS has been identified as a Historic District. The Administration Building (Building 1), Old Gymnasium/Physical Education Building (Building 2), Classroom Building No. 1 (Building 3), Industrial Arts Building (Building 4), Auditorium (Building 5), and Home Economics Building (Building 6) were determined to be contributors to the Historic District, as well as the majority of the related landscape elements.

The proposed Project would include renovations, modernizations, and new construction on the Campus, in addition to the demolition of one contributing building and several non-contributing buildings. The proposed Project would include seismic retrofitting and modernization of the Administration Building (Building 1), Old Gymnasium/Physical Education Building (Building 2), Classroom Building No. 1 (Building 3), and Home Economics Building (Building 6), all contributors. The Auditorium (Building 5), also a contributor, is proposed to receive minor improvements. Furthermore, the proposed Project would include demolition of the contributing Industrial Arts Building (Building 4) and several non-contributing buildings, which would be replaced under the Project with a new Building A. While the Industrial Arts Building is a

contributor to the Historic District, it is not the most visually or functionally prominent building. Lastly, a new Building B would be constructed north of the Auditorium (Building 5), and a new Central Plant would be constructed in the parking lot located north of 15th Street and east of Alma Street.

With the incorporation of SC-CUL-1, SC-CUL-2, and SC-CUL-3, the majority of the contributing buildings and landscape features would be rehabilitated in conformance with the SOI Standards for Rehabilitation (to the extent feasible), LAUSD Design Guidelines and Treatment Approaches for Historic Schools, and LAUSD's requirements and guidelines for the treatment of historical resources under the guidance of a qualified Historic Architect. The proposed renovations would largely conform with the SOI Standards for Rehabilitation, the buildings and landscape would retain integrity, and San Pedro HS would remain eligible for listing on the National Register and California Register.

The Administration Building (Building 1), Old Gymnasium/Physical Education Building (Building 2), Classroom Building No. 1 (Building 3), and Auditorium (Building 5) are the most architecturally distinctive buildings and, along with the associated landscaping, are essential to conveying the significance and historic character of the Historic District. The demolition of the Industrial Arts Building (Building 4) would result in the removal of a contributing building to the Historic District, causing a loss of historic fabric. However, the Industrial Arts Building has undergone several notable exterior alterations as described above, and the degree to which it contributes to the Historic District is not commensurate with that of the buildings listed above. Therefore, its removal would not significantly detract from the overall site plan such that San Pedro HS would no longer be eligible as a Historic District. As such, the removal of the Industrial Arts Building would not constitute a substantial adverse change in the historic significance or integrity of the Historic District. The implementation of SC-CUL-4 would require the recordation/ documentation of this building in a HABS-like package.

The Historic District would retain sufficient integrity through the preservation of the majority of the contributing buildings and landscape features. The majority of the CDFs of these contributing buildings would be restored or, in limited instances, replaced in-kind, ensuring the integrity of the historical resource and maintaining its eligibility for the National Register and California Register.

The Project would result in construction of three new buildings: Buildings A, B, and the Central Plant. With implementation of SC-CUL-1, SC-CUL-2, and SC-CUL-3, the proposed new construction would comply with SOI Standards 9 and 10, would be compatible with the size, scale, and height of the contributing Streamline Moderne-style buildings and landscape features that would remain, and would not destroy spatial relationships that characterize the Historic District. Additionally, the implementation of SC-N-8 would help to protect historic buildings from construction-related vibration impacts.

Under the CEQA Guidelines, the significance of an historical resource is materially impaired when a project alters in an adverse manner those physical characteristics that account for its eligibility as a historical resource. The Campus is seen as a single historical resource—the San Pedro HS Historic District—with the buildings, structures, and other features, such as landscaping, as either

contributing or non-contributing elements, or components, of that historical resource. Therefore, with implementation of SC-CUL-1 through SC-CUL-6, the Historic District would retain sufficient integrity to remain eligible for the National Register and California Register as the majority of the contributing buildings and landscape features would be rehabilitated in conformance to the SOI Standards, new construction would conform to SOI Standards 9 and 10. It has been determined that the demolition of the one contributing building (Industrial Arts Building) would not result in the ineligibility of the historic district. Additionally, it would be documented in a HABS-like recordation document and its CDFs would be salvaged per LAUSD SC-CUL-1 to SC-CUL-6, resulting in a less-than-significant impact. No mitigation or further study is required.

### 8.3.2 Indirect Impacts

Indirect impacts were analyzed to determine if the proposed Project would result in a substantial material change to the integrity and significance of historical resources and their immediate surroundings within the Project site and the Project vicinity such that their eligibility would be materially impaired. Potential indirect impacts were found to be less than significant.

The one historical resource with an indirect view of the Historic District—the Dodson House located at 859 West 13th Street. Changes to a historical resource's setting through the alteration, demolition or construction of buildings can, in some cases, result in a substantial adverse change. The Dodson House would retain its eligibility as an historical resource after Project completion, as the Project would not physically alter or destroy any of its CDFs or significantly alter the setting this resource.

### 8.3.3 Cumulative Impacts

As defined in Section 15355, a cumulative impact consists of an impact which is created as a result of the combination of the project evaluated in the EIR together with other projects causing related impacts. A project would have a cumulatively considerable impact on cultural resources if it contributes to the cumulative loss of significant historical or archaeological resources. The cumulative context for this Project would be this and any future projects on the campus that could significantly impact historic resources. Following this Project, there are no known or reasonably foreseeable projects identified for this campus. It would be anticipated that minor maintenance activities may occur on the campus following construction; however, no other projects of the same type or scale are planned for the campus at this time.

As the proposed Project largely complies with the SOI Standards for Rehabilitation, it would have a less-than-significant impact on historical resources (i.e., the Historic District) and, after Project completion, the San Pedro HS Historic District would remain eligible for listing in the National Register or California Register. The Project would not have a cumulatively considerable impact to historic resources.

# 9. References Cited

Beverly Hills Unified School District. "Brief History of Our School Facilities." Available: http://www.bhusd.org/apps/pages/index.jsp?uREC_ID=41863&type=d&pREC_ID=50487. Accessed December 26, 2017.

City of Los Angeles, Department of City Planning, Office of Historic Resources. *Guide for Professionals Using the Historic Context Statement for Property Evaluations.* October 2017. Abvailable: https://preservation.lacity.org. Accessed January 5, 2018.

———. *SurveyLA: Los Angeles Historic Resources Survey.* Available: http://preservation.lacity.org/survey. Accessed January 5, 2017.

ESA. *Initial Study for San Pedro High School Comprehensive Modernization Project.* Prepared for Los Angeles Unified School District, September 28, 2017.

Gebhard, David and Harriet von Breton. *Los Angeles in the Thirties: 1931-1941*. Santa Monica: Hennessey & Ingalls, 1975.

Historic Resources Group. DPR 523 form set for San Pedro High School (P-19-175245). December 5, 1994.

LAUSD Drawing Archive, 8850.06.000, July 1, 1935, New Plant – Administration Building and Home Economics and Industrial Arts Building.

———, 8850.07.000, July 1, 1936, New Auditorium and Physical Education Building.

———, 8850.08.000, September 1, 1938, New Classroom Building #1.

———, 8850.09.000, July 1, 1941, Shop Building for National Defense Training.

———, 8850.11.000, June 6, 1960, Girl's Gymnasium Building.

———, 8850.13.000, December 1, 1961, New Classroom #2 & Food Service Unit.

———, 8850.14.000, June 1, 1965, Alterations to Industrial Arts Building.

———, 8850.15.000, September 1, 1968, Alteration to Home Economics Building (Enlarge Kitchen & New Faculty Room).

———, 8850.26.000, July 29, 2005, Addition: New Gymnasium Building.

*Los Angeles Times*, "Cancer Lab Completed at County/USC Center," (October 9, 1977): 277.

Kesling, Patrick Pascal, *Modern Structures Popularizing Modern Design in Southern California 1934-1962* (Los Angeles: Balcony Press, 2002): 10.

McKinzie, Joe. *Postcard History Series: San Pedro.* Charleston, SC: Arcadia Publishing, 2007.

Meade, Will. "Re: San Pedro Existing Structures." Email from LAUSD to Arabesque Abdelwahed (ESA). January 25, 2018.

National Park Service, United States Department of the Interior. "Four Approaches to the Treatment of Historic Properties." *The Secretary of the Interior's Standards*. Available: https://www.nps.gov/tps/standards/four-treatments.htm. Accessed July 31, 2017.

———. "Rehabilitation as Treatment." *The Secretary of the Interior's Standards*. Available: https://www.nps.gov/tps/standards/four-treatments.htm. Accessed July 31, 2017.

Nelson, Lee H. *Preservation Brief 17: Architectural Character—Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving their Character*, National Park Service, September 1988. Available: http://www.nps.gov/tps/how-to-preserve/briefs/17-architectural-character.htm. Accessed June 4, 2015.

PCR Services. Character Defining-Features Memorandum (CDFM) for San Pedro High School, 1001 West 15th Street, Los Angeles, California 90731, Prepared for LAUSD, June 30, 2015.

Sapphos Environmental, Inc. *LAUSD Historic Resources Survey Report*, Prepared for LAUSD Office of Environmental Health and Safety (June 2014): 75.

———. *Los Angeles Unified School District: Historic Context Statement, 1870 to 1969*. March 2014.

South Central Coastal Information Center. File No. 15983.2090. December 6, 2017.

Steven Fader Architects. "Final Design Memorandum for the Record, San Pedro High School Comprehensive Modernization Project." September 8, 2017.

# Appendix A
## **Resumes**



# Johanna Kahn

## Associate

**EDUCATION**

Master of Architectural History + Certificate in Historic Preservation, University of Virginia

Bachelor of Architecture, California Polytechnic State University, San Luis Obispo

International Program in Florence, Italy, Art & Architectural History, California State University

**8 YEARS EXPERIENCE**

**PROFESSIONAL AFFILIATIONS**

California Preservation Foundation

San Francisco Heritage

Johanna is an architectural historian in ESA's Cultural Resources Group. Her role entails conducting field surveys and archival research at local repositories in order to document and evaluate historic resources for eligibility for the National and California Registers. Additionally, she writes technical reports that meet federal, state, and local requirements and has completed evaluations for historic buildings, structures, and districts across the San Francisco Bay Area and Central California. Johanna meets the Secretary of the Interior's Professional Qualification Standards for architectural history, architecture, and historic architecture. She is also experienced in museum operations, grant writing, and fundraising for non-profits.

## Relevant Experience

**Ellis Partners, LLC, 1100 Broadway, Oakland, CA.** *Architectural Historian.* As part of an addendum to the CEQA analysis for a proposed project located at 1100 Broadway in Downtown Oakland, Johanna evaluated the design for the rehabilitation of the historic Key System Building and adjacent high-rise commercial tower for consistency with the Secretary of the Interior's Standards for Rehabilitation. The Key System Building is individually listed in the National Register of Historic Places and the City of Oakland Local Register. The proposed project was analyzed for potential effects on the significance of the Key System Building as well as the locally designated Downtown Oakland Historic District, to which the historic building is a contributor.

**Metro Parks Tacoma, National Register of Historic Places Nomination for Titlow Lodge, Tacoma, WA.** *Architectural Historian.* Johanna prepared documentation to nominate Titlow Lodge for listing in the National Register of Historic Places. Originally known as Hotel Hesperides and constructed in 1911 as a 3-½-story building near the shore of Puget Sound, the lodge was reduced to 1 ½ stories in 1937 as a project of the Works Progress Administration. ESA provided a detailed architectural description of the building's exterior as well as interior spaces, a construction chronology, and a statement of significance under Criterion C (Design/Construction).

**San Francisco International Airport (SFO), Recommended Airport Development Plan EIR, San Francisco, CA.** *Architectural Historian.* Johanna prepared the Historic Resource Evaluation in support of the EIR for SFO's next long-term master plan—the Recommended Airport Development Plan—that will support the strategic development of the airport over the next two decades. Johanna surveyed, researched, and evaluated historic-age buildings located on the airport campus, developing an in-depth context of the airport's history and development since the beginning of the Jet Age.

**San Francisco Mayor's Office of Housing and Community Development, Section 106 Studies, San Francisco, CA.** *Architectural Historian.* Johanna has surveyed, researched, and evaluated buildings identified as proposed sites for federally funded, high-density residential development in the City and County of San Francisco as well as buildings within the areas of potential effect.

**City of Union City, Masonic Homes Skilled Nursing Facility, Union City, CA.** *Architectural Historian.* Johanna surveyed the Masonic Home at Union City campus to confirm the continued existence of contributing features. She prepared an Updated Historic Resources Evaluation Memo that in turn informed the Initial Study.

**LeLand Properties, LLC, 2200 Stockton Boulevard, Sacramento CA.** *Architectural Historian.* In support of a historic resource evaluation previously prepared by ESA of the 1930s Coca Cola bottling factory at 2200 Stockton Boulevard, Johanna surveyed, researched, and evaluated adjacent properties for potential historic significance.

**City of Sacramento, Central City Specific Plan, Sacramento, CA.** For the City of Sacramento, ESA is preparing a Specific Plan, associated technical reports, an environmental impact report, and an update to an existing historic district. Cultural resources staff prepared a technical background report, updated the R Street Historic District evaluation, and prepared the Cultural Resources section of the EIR. The historic resources survey for the technical background report and historic district report included surveying and documenting hundreds of parcels as well as archival research and evaluation of resources. The project is ongoing and expected to extend through 2017.

**Brown & Caldwell, North Bay Water Reuse Program, San Francisco Bay Area, CA.** *Architectural Historian.* As part of a feasibility study comprising a dozen sanitary districts, cities, and counties in the North San Pablo Bay region, Johanna surveyed, researched, and evaluated two wastewater treatment plants in Novato and Napa for potential historic significance.

**City of Fremont, Niles Gateway Mixed-Use Project, Fremont, CA.** *Architectural Historian.* Johanna analyzed the proposed project, which is located within the Niles Historic Overlay District, for conformance with the Niles Design Guidelines and Regulations. A Design Review Report was prepared in support of the EIR.

**Kilroy Realty, Interim Flower Mart Project, San Francisco, CA.** *Architectural Historian.* While a new permanent location for the San Francisco Flower Mart is being constructed in the South of Market neighborhood, the operation would temporarily relocate to Piers 19, 19 ½, and 23 on The Embarcadero. In support of the EIR addendum, Johanna analyzed the proposed project for consistency with the Secretary of the Interior's Standards for Rehabilitation. Piers 19 and 23 are contributors to the Port of San Francisco Embarcadero Historic District, which is listed on the National Register of Historic Places. A Part 2 Historic Resource Evaluation was prepared.

**City of Burlingame, SFO@Technology Center, Burlingame, CA.** *Architectural Historian.* As part of the Initial Study/Mitigated Negative Declaration for the proposed SFO@Technology Center located at 1300 Bayshore Highway, Johanna surveyed, researched, and evaluated a collection of mid-20$^{th}$-century buildings for potential historic significance.

**Soquel Creek Water District, Advanced Purified Groundwater Replenishment Project, Soquel and Santa Cruz, CA.** *Architectural Historian.* The proposed advanced purified groundwater replenishment project – Pure Water Soquel – is intended to supplement natural recharge of the Santa Cruz Mid-County Groundwater Basin with purified water. Johanna researched and evaluated residential properties and a wastewater treatment plant for potential historic significance. A cultural resources report was prepared in support of the EIR.



# Amber L. Grady

## Senior Architectural Historian

EDUCATION

M.A., Historic Preservation, Savannah College of Art & Design, Savannah, GA

B.A., Interior Design with a minor in Art History, California State University, Chico

16 YEARS EXPERIENCE

PROFESSIONAL AFFILIATIONS

California Preservation Foundation

Society of Architectural Historians

Amber Grady is an expert in NEPA, CEQA, and Section 106 of the NHPA compliance with over 16 years of experience in cultural resources management. Amber has extensive experience in California architectural history with an emphasis on northern California. Her cultural resources management experience includes archival research, historic building and structure surveys and evaluations, and cultural resources documentation for NEPA and CEQA projects ranging from single building evaluations to district-wide surveys. Previously, Amber served as the Cultural Resources Manager for the State of California for the California Army National Guard (CA ARNG). At the CA ARNG Amber managed the cultural resources program, which included the management of over 100 archaeological sites as well as the State's historic armories and supervising three full time archaeologists. Prior to joining the CA ARNG Amber worked for the California Energy Commission as an Architectural Historian where she worked on a variety of energy project including one of the largest solar projects in California as the Cultural Resources lead. Prior to that Amber worked as an Architectural Historian and Project Manager foranother employer on a variety of projects throughout California and Nevada completing project for City's, school districts, and private sector clients. Amber began her career in the public sector working as a planner for both the County of Santa Clara and the City and County of San Francisco. Amber's expertise includes all phases of environmental compliance from documentation to compliance during construction.

## Relevant Experience

**260 E San Antonio Road Local Landmark Evaluation, Long Beach, CA.** ESA evaluated the property for City of Long Beach Local Landmark status. Amber was the Lead Architectural Historian on the project, who was responsible for the research, survey, evaluation, and report completion.

**VIP Records Sign, Long Beach, CA.** *Senior Architectural Historian.* ESA evaluated the property for City of Long Beach Local Landmark status. Amber was the Lead Architectural Historian on the project, who was responsible for the research, survey, evaluation, and report completion.

**Fly DC Jets Sign, Long Beach, CA.** *Senior Architectural Historian.* ESA evaluated the property for City of Long Beach Local Landmark status. Amber was the Lead Architectural Historian on the project, who was responsible for the research, survey, evaluation, and report completion.

**Los Angeles Unified School District (LAUSD) President Elementary School Historic Resources Evaluation, Harbor City, CA.** *Senior Architectural Historian*. This is one of many historic resources evaluations that ESA has done for LAUSD. Amber assisted in the completion of the Historic Resources Evaluation report, which will be used in support of the Environmental Compliance documents.

**LAUSD 6th Avenue Elementary School, Los Angeles, CA.** *Senior Architectural Historian*. This is one of many historic resources evaluations that ESA has done for LAUSD. Amber assisted in the completion of the Historic Resources Evaluation report, which will be used in support of the Environmental Compliance documents.

**California Department of Water Resources (DWR), Oroville Spillway Emergency Repair Project, Oroville Dam, CA.** *Senior Architectural Historian.* Amber and her staff have been assisting DWR with Section 106 compliance for built environment resources for the emergency spillway repair project. She routinely advises DWR staff on portions of the project that affect contributing elements of the National Register eligible Oroville Division Historic District, and preparing Finding of Effect documents to ensure construction is not delayed. The project is ongoing and expected to extend through 2018.

**730 Stanyan, San Francisco, CA.** *Senior Architectural Historian.* ESA is currently assisting the MOHCD with Section 106 compliance for their 730 Stanyan project. Amber is the Lead Architectural Historian on the project and was responsible for research, survey, and evaluation of the historic-age properties within the APE. This project is in progress and ESA will also be preparing the HRE.

**City of Sacramento, Swanston Station Transit Village Specific Plan EIR, Sacramento, CA.** The Swanston Station Transit Village Plan (SSTVP) was prepared to implement transit-oriented development around the Swanston Light Rail Station in Sacramento's North Sacramento Community Plan Area by providing goals, policies and objectives, and implementation measures that will guide land use and development decisions around the station for 20 years. A series of concepts to construct an intermodal transit center linking the light rail service with bus service at the Swanston Station for the Sacramento Regional Transit District was developed. Amber was responsible for preparing the cultural resources and visual quality sections of the EIR.

**California High-Speed Rail Project, Environmental Compliance for San Francisco to San Jose Segment, CA.** *Senior Architectural historian, Topic Leader for Cultural Resources, Task Leader for Historic Architecture.* Amber was the Senior Architectural Historian on the project as well as the Topic Leader for Cultural Resources. Topic leader duties included coordinating the recording/evaluating efforts for Archaeological, Historic Architectural, and Paleontological resources. As the Senior Architectural Historian Amber and her team surveyed over 6,000 buildings/structures resulting in the evaluation of over 300 for National Register of Historic Places (National Register) and California Register of Historical Resources (California Register) eligibility.

**Rio Mesa Solar Project.** *Cultural Resources Lead/Built Environment Specialist.* The Rio Mesa Solar Electric Generating Facility consisted of two 250-megawatt solar concentration thermal power plants situated on the Palo Verde Mesa in Riverside County, California. A common facilities area included a combined administration, control, and maintenance facilities, a water treatment facility, and switchyard. The project total area, including the shared facilities and gen-tie line, was approximately 3,960 acres. Amber was responsible for coordinating the work of 3-4 staff and completing the built environment analysis of the Cultural Resources Section of the Staff Assessment.



# Christian Taylor

## Senior Architectural Historian

EDUCATION

Master's Degree, Historic Preservation, University of Southern California, Los Angeles

B.A., History, University of Oklahoma, Norman

5 YEARS EXPERIENCE

PROFESSIONAL AFFILIATIONS

California Preservation Foundation

Society of Architectural Historians

Association for Preservation Technology

Christian Taylor is a historic resources specialist with academic and professional experience in assessing historic structures and contributing to California Environmental Quality Act (CEQA)-level documents. Throughout the course of his career, Christian has developed an interest in Los Angeles' industrial, economic, and transportation related history. Christian continues to hone his skills in management of rehabilitation and restoration projects, preparation of historic contexts, the use of non-invasive material investigation methods and advanced methods of documentation, and historic resource assessments.

Christian has completed and co-authored a wide range of architectural investigations including historic resources assessment and impacts analysis reports for compliance with CEQA, character-defining features reports, plan reviews, investment tax credit applications, Section 106 significance evaluations, and HABS/HAER documentations. He has also performed extensive research, survey work, and prepared landmark and preliminary assessment reports as a part of ESA's On-Call Historic Preservation Contract with the City of Santa Monica.

Christian has contributed to the research, site inspections, and report preparation of a number of historic resources assessments in the Los Angeles metropolitan area for compliance with CEQA. He has evaluated a number of different types of potential historical resources, including single-family and multi-family residences, factories and industrial properties, commercial buildings, and schools, in West Hollywood, Venice, Los Angeles, Culver City, and Santa Monica.

## Relevant Experience

**Venice Historic Resource Assessments, Los Angeles, CA.** *Architectural Historian.* These projects included over a dozen historic resource assessment reports for various properties located in the Venice Community Plan Area investigated by SurveyLA in 2015. The reports developed a historic context statement related to the settlement history of Venice and the specific sites. Often the reports included an Impacts Analysis, reviewing new projects for compatibility with potential districts identified by SurveyLA.

**John Marshall High School, Los Angeles, CA.** *Architectural Historian.* ESA was hired to review a proposed project comprising of seismic upgrades and the repair of damaged façade elements, including brickwork, retooling of brick joints, replacement of damaged window frame elements, repair of façade concrete work, and repair and/or reconstruction of crenellations on the John Marshall High School main building tower. John Marshall High School was previously determined eligible for the National Register of Historic Places through the Section 106 process and listed in the California Register of Historical Resources.

As such, Marshall High School is considered a historical resource pursuant to CEQA. Chris conducted a survey of the building's current conditions and reviewed the proposed project for compliance with CEQA and conformance with the Secretary of the Interior's Standards for Rehabilitation. Chris was responsible for a preparing a letter report summarizing the findings of the plan review.

**Fred C. Nelles School, 11850 Whittier Boulevard, Whittier, CA.** *Architectural Historian*. ESA is providing on-going historical resources management and preservation consultation services for the redevelopment of a 72-acre site and rehabilitation of four principal historic buildings on the now vacant, formerly state-owned Fred C. Nelles Youth Correctional Facility (Whittier State School). Opened in 1891, the school is a California State Historical Landmark (1997) and is an historical resource pursuant to CEQA. ESA prepared a Historic American Building Survey (HABS) report as part of the mitigation program and provided preservation design consultation for development of the preferred project, including the rehabilitation of four historic buildings to be retained including the Superintendent's Residence, Administration Building, Assistant Superintendent's Residence, and Chapels Building. The consultation included plan reviews for the site development plan, Certificate of Appropriateness submittal package for the architectural plans, and Tenant Improvement plans, ensuring that the project conformed with the Secretary of the Interior's Standards for Rehabilitation. Chris is responsible for completion of the HABS documentation and consultation on proposed project plans.

**929 E. 2nd Street IS/MND, Los Angeles, CA.** *Architectural Historian.* ESA prepared an IS/MND for the 929 E. 2nd Street project. The project required a Historic Resources Assessment to evaluate the existing two-story industrial building for individual eligibility at the local, state, and national level. The results of the evaluation were that the former Challenge Creamery Association Building did not appear individually eligible under the applicable local, state, or national criteria. The building is located within the boundaries of a potential historic district identified by SurveyLA. The assessment of the property included a review of the potential district and its contributors. A district description was developed and the building was found eligible as a contributor. The proposed project was then reviewed for potential impacts to the district, nearby contributors and individual resources, and the contributor within the project area. Mitigation measures and project alterations were recommended to the client as a result of the investigations. Chris conducted the HRA and prepared the Historic Technical Report for the IS/MND.

**5001 Balboa Boulevard, Los Angeles, CA.** *Architectural Historian.* ESA prepared a Plan Review Letter for the 5001 Balboa Blvd. project. The client was seeking to adaptively reuse an existing fire station identified by SurveyLA as eligible for the National Register, California Register, and local designation. The Plan Review Letter involved a review and recommended modifications of the project plans for compliances with CEQA and the Secretary of the Interior's Standards for Rehabilitation. Chris was responsible for preparation of the Plan Review Letter.

# Appendix D

## Archaeological and Paleontological Resources Technical Report

ESA

**Public Version**

# SAN PEDRO HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT CITY OF LOS ANGELES, CALIFORNIA

## Archaeological and Paleontological Resources Report

**Prepared for**

Los Angeles Unified School District
333 South Beaudry Avenue
Los Angeles, CA 90017

**January 2018**

ESA



**Public Version**

# SAN PEDRO HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT CITY OF LOS ANGELES, CALIFORNIA

## Archaeological and Paleontological Resources Report

**Prepared for:**

Los Angeles Unified School District
333 South Beaudry Avenue
Los Angeles, CA 90017

**January 2018**


**Prepared by:**

ESA
2121 Alton Parkway, Suite 100
Irvine, CA 92606

**Project Director**

Monica Strauss, M.A., R.P.A.

**Principal Investigators:**

Michael Bever, Ph.D., R.P.A.
Alyssa Bell, Ph.D.

**Report Authors:**

Fatima Clark, B.A.
Alyssa Bell, Ph.D.


**Project Location:**

San Pedro (CA) USGS 7.5-minute Topographic Quad,
Unsectioned portion of Township 5 South, Range 14 West

**Acreage**: Approx. 22.9 acres

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| | |
|---|---|
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# EXECUTIVE SUMMARY

## San Pedro High School Comprehensive Modernization Project, City of Los Angeles, California – Archaeological and Paleontological Resources Report

The Los Angeles Unified School District (LAUSD or District) has retained Environmental Science Associates (ESA) to prepare an Environmental Impact Report (EIR) pursuant to the statutes of the California Environmental Quality Act (CEQA) for the San Pedro High School Comprehensive Modernization Project (Project). The proposed Project is a site-specific school upgrade and modernization project being completed by LAUSD under the School Upgrade Program (SUP). The SUP Environmental Impact Report (Program EIR) was certified by LAUSD on November 10, 2015.[1] The proposed Project would include renovations, modernizations, and new construction at San Pedro High School . LAUSD is the lead agency pursuant to CEQA.

The 22.9-acre proposed Project site is located at 1001 West 15th Street within the community of San Pedro in the southwest portion of the City of Los Angeles. The Project site is bounded by 15th Street to the north, W. 17th Street to the south, Dana Middle School to the east, and S. Leland Street to the west. Specifically, the proposed Project site is located in an unsectioned portion of Township 5 South, Range 14 West, of the San Pedro 7.5-minute United States Geological Survey (USGS) topographic quadrangle.

A records search for the proposed project was conducted on December 6, 2017 at the California Historic Resource Inventory System (CHRIS) South Central Coastal Information Center (SCCIC), housed at California State University, Fullerton. The records search results indicate that seven cultural resources studies have been conducted within a ½-mile of the proposed Project. Less than five percent of the ½-mile records search area has been included in previous studies. Of the seven studies, none have included the Project site. The records search results also indicate that no archaeological resources (historic or prehistoric) have been recorded within the Project site or the ½-mile radius. One historic-period built resource (19-175245; the San Pedro High School itself) has been recorded within the boundaries of the Project site.

[1] LAUSD. 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.

A Sacred Lands File (SLF) check conducted by the California Native American Heritage Commission (NAHC) on November 29, 2017 indicated that no Native American cultural resources are known to be located within the Project site.

Because the Project site is fully developed and no natural ground surface exposures exists, an archaeological resources survey was not conducted.

Archival research indicates that, prior to the construction of the school, several portions of the Project site were developed with former family dwellings since at least 1921. Moreover, review of the geotechnical report prepared for the proposed project indicates that fill soil materials are located within the Project site. Research conducted for a previous ESA project (located in the general vicinity of the Project site) also indicated that buried features and artifacts were found within soil materials classified as fill (Garcia and Clark, 2017). Based on these results, there is potential for the Project site to preserve historic-period archaeological resources (associated with the former family dwellings) even in fill soils under the current foundations of the school buildings, landscaping, and hardscape. Since the Project includes ground disturbance, previously undocumented archaeological resources could be encountered during construction. If any such resources were found to be significant, the proposed Project could result in a significant impact to archaeological resources that qualify as historical resources or unique archaeological resources under CEQA.

The project will incorporate LAUSD's Standard Conditions of Approval (SCs), SC-CUL-7 through SC-CUL-13, to ensure that potential impacts remain at a level that is less than significant. These conditions include retention of an on-call qualified archaeologist (SC-CUL-7), implementation of an archaeological resources monitoring program (SC-CUL-9), halting and re-directing work if a discovery until it is evaluated for significance (SC-CUL-8 and SC-CUL-10), cultural resources sensitivity training (SC-CUL-11), Phase III Data Recovery/Mitigation Program in the event that an unanticipated significant resource is discovered and cannot be avoided (SC-CUL-12), and consultation with local Native American representatives regarding documentation and recovery of Native American resources (SC-CUL-13). Incorporation of these SCs will ensure that the project will have a less than significant impact on archaeological resources.

A paleontological records search was conducted by the Natural History Museum of Los Angeles County (LACM) on December 11, 2017. The results indicate that exposures of the marine late Miocene Valmonte Diatomite Member of the Monterey Formation are located within the Project site. Fossil localities from the Valmonte Diatomite have been recorded between 1.0 and 1.5 miles from the Project site at unknown depths and have yielded specimens of lampfish, cod, sevengill shark, viperfish, croaker, cod, pipefish, flounder, bristlemouth, herring, and lanternfish. The results of the records search also indicate that the Project site has exposures of the marine middle Miocene Altamira Shale Member of the Monterey Formation. Fossil localities from the Altamira Shale have been recorded between 1.0 and 2.0 miles from the Project site at unknown depths. These localities have produced fossil specimens of herring, croaker, seahorse, wahoo, sealion, the marine mammal *Paleoparadoxia*, dolphin, a primitive baleen whale, butterfly ray, herring, cod, tuna, pipefish, booby, porpoise, an undetermined sperm whale, and leatherback turtle. Clearly, both the Valmonte Diatomite and the Altamira Shale have high paleontological sensitivity and the

proposed Project could result in a significant impact to unique paleontological resources under CEQA.

ESA recommends that the project comply with SC-CUL-14 to ensure that potential impacts remain less than significant, and identifies the following mitigation measures: paleontological resources sensitivity training (CUL-1), paleontological monitoring (CUL-2), and halting and re-directing work if a discovery is made until it is evaluated for significance (CUL-3).

# SAN PEDRO HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT
# CITY OF LOS ANGELES, CALIFORNIA

# Archaeological and Paleontological Resources Report

## 1. Introduction

The Los Angeles Unified School District (LAUSD or District) has retained Environmental Science Associates (ESA) to prepare an Environmental Impact Report (EIR) pursuant to the statutes of the California Environmental Quality Act (CEQA) for the San Pedro High School Comprehensive Modernization Project (Project). The proposed Project is a site-specific school upgrade and modernization project being completed by LAUSD under the School Upgrade Program (SUP). The SUP Environmental Impact Report (Program EIR) was certified by LAUSD on November 10, 2015.[2] The proposed Project would include renovations, modernizations, and new construction at San Pedro High School (HS) . LAUSD is the lead agency pursuant to CEQA. This report documents the results of an archaeological and paleontological resources assessment conducted by ESA in support of the EIR for the proposed Project. Specific studies included records searches at the South Central Coastal Information Center (SCCIC) and the Natural History Museum of Los Angeles County (LACM), archival research, and a review of the Sacred Lands File (SLF) at the Native American Heritage Commission (NAHC). Because the proposed Project site is fully developed and no natural ground surface exposures exists, an archaeological resources survey was not conducted.

ESA personnel involved in the preparation of this report are as follows: Monica Strauss, M.A., R.P.A., Project Director; Candace Ehringer, M.A., R.P.A., Principal Investigator; Alyssa Bell, Ph.D., Paleontological Principal Investigator and report author; Fatima Clark, B.A., report author; and Jessie Lee, GIS specialist. Resumes of key personnel are included in **Appendix A**.

### 1.1 Project Location

The 22.9-acre proposed Project site is located within the community of San Pedro in the southwest portion of the City of Los Angeles, approximately 1.45 miles north of the Pacific Ocean (**Figure 1**).

[2] LAUSD. 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.




Path: U:\GIS\GIS\Projects\211xx\211085_31_San_Pedro_HS\03_MXDs_Projects\Fig1_ProjectVic_San_Pedro.mxd; JYL 12/22/2017

SOURCE: Los Angeles County GIS.

San Pedro High School Comprehensive Modernization Project . 211085.31

**Figure 1**

Regional Location

The proposed project is located at 1001 West 15th Street and is bounded by 15th Street to the north, W. 17th Street to the south, Dana Middle School to the east, and S. Leland Street to the west. Specifically, the proposed Project site is located in an unsectioned portion of Township 5 South, Range 14 West, of the San Pedro 7.5-minute USGS topographic quadrangle (**Figure 2**).

## 1.2 Project Description

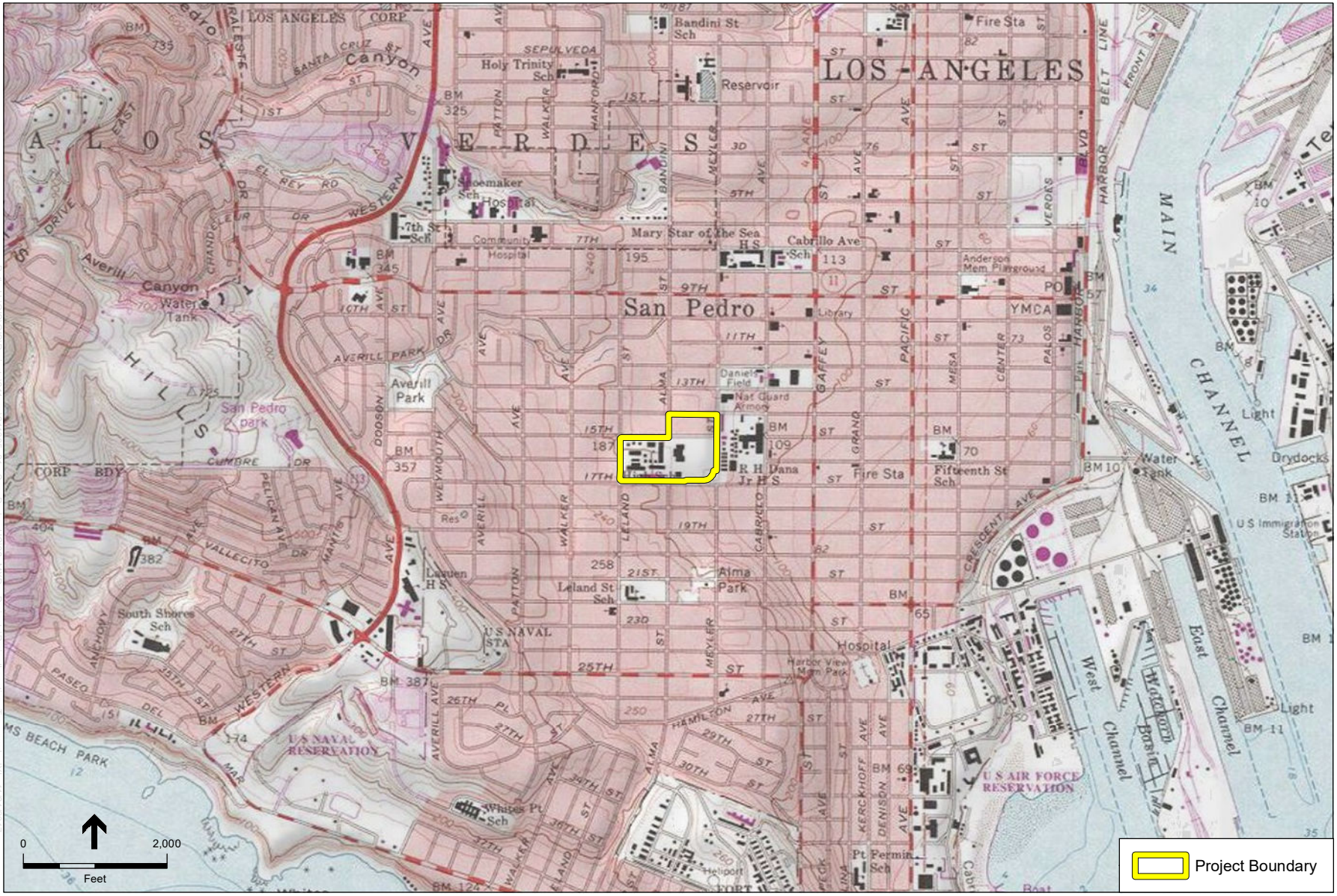
The proposed Project site consists of the San Pedro HS Campus which sits on a multi-tiered hillside, with the highest elevation located on the southwest. The new Gymnasium, play areas, and athletic fields are located on the lower level, and separate the San Pedro HS Campus from adjacent Dana Middle School Campus. West of the lower level is the main plateau which consists of three original permanent buildings: Administration and Classroom Building, Home Economics Building, and Classroom Building #1. The Administration Building is at an intermediate level facing 17th Street is Classroom Building #2 (Science Building). West and uphill from the main Administrative Building is the upper level of the Campus where the Food Service Unit and the Auditorium Building are located. There are several portable classrooms located in the northwest end and in the central part of the Campus. South of the Auditorium are two permanent buildings, the Industrial Arts Building and the Shop Building.

The proposed Project would include renovations, modernizations, and new construction at San Pedro HS; including demolition of the Industrial Arts Building, the Shop Building, Food Service Unit, and Lunch Shelter, and removal of four portable (relocatable) buildings and one modular building. The Project would include construction of a new Band and Industrial Arts Building; Administration, Food Service, and Classroom Building to house general and specialty classrooms, administration, kitchen, dining, and support spaces; Central Plant; and lunch shelter, or lunch shelters. The new buildings would house approximately 12 new general and specialty classrooms, and support spaces.

The Project includes modifications and/or upgrades to the Administration Building, the Old Gymnasium (including voluntary seismic retrofit and new wood floor in the main court), the Home Economics Building, Classroom Building # 1 and Classroom Building # 2 (Science Building). Upon completion of Project construction, San Pedro H S would have 69 classrooms, consisting of 23 existing classrooms, 34 remodeled classrooms, and 12 new classrooms.

The Project would also improve parking at the Campus with the addition of an accessible on-site visitor parking lot off Leland Street. Internal circulation routes would include emergency vehicle access and pedestrian access. The Project would result in a decrease of onsite parking spaces from 248 parking stalls to 184 parking stalls. Landscape improvements may include repair or replacement of irrigation systems including lawn sprinklers and sprinkler controls, trees, shrubs and other vegetation; landscaping plant material; utilitarian landscape components, such as sprinkler piping; and installation of fencing and freestanding exterior walls. A total of 121 trees on the Project site would be removed and two street trees would be removed. In addition, the Project would include the incorporation of a small Japanese Garden. Site-wide infrastructure

improvements would be completed as part of the Project for electrical, gas, sewer, water, and drainage.




SOURCE: USGS 7.5' Topo Quad San Pedro 1979, 1982

San Pedro High School Comprehensive Modernization Project . 211085.31

**Figure 2**
Project Location

# 2. Setting

## 2.1 Natural Setting

The proposed Project is currently a high school composed of a cluster of permanent structures (used mainly for classrooms, offices, gymnasiums, an auditorium, and a cafeteria); portable classrooms, a concrete block storage bunker; baseball, football, and softball field; a parking lot; and landscaped and hardscaped surfaces (Clark Seif Clark, Inc., 2016). The proposed project is located in a highly urbanized portion of the Los Angeles Basin in an area dominated by residential development.

## 2.2 Geologic Setting

The Project site is situated within the northwest coastal portion of the Peninsular Ranges Geomorphic Province. The Peninsular Ranges extend eastward from the Los Angeles coastline to the San Bernardino Fault and from the San Diego coastline to the Colorado Desert. The ranges are characterized by northwest-southeast trending mountains and valleys (Norris and Webb, 1990). The Project site is located within the southeast portion of the Palos Verdes Peninsula, which forms a prominent topographic high 70 km long that separates the Los Angeles Basin from the San Pedro Basin (Saucedo et al., 2016). The Palos Verdes Peninsula is an anticlinorium, or a sequence of upwardly-folded strata, created by compressional deformation that began in the Pliocene (around 4.5 million years ago), with uplift continuing to the present (Sorlein et al., 2013).

The Palos Verdes Peninsula consists of the Catalina Schist, metamorphic basement rocks that date to the Cretaceous, overlain by a thick sequence of marine sediments assigned to the Monterey Formation that dates from the middle Miocene to the upper Pliocene (approximately 16 - 4 million years ago). In the Palos Verdes Peninsula, the Monterey Formation is represented by the middle Miocene Altamira Shale member, which is overlain in turn by the upper Miocene Valmonte Diatomite member and the upper Miocene/lower Pliocene Malaga Mudstone member (Saucedo et al., 2016). The sedimentary sequence continues in the Palos Verdes Peninsula with the continued deposition of sediments through the Pliocene Fernando Formation and Pleistocene San Pedro Formation (Saucedo et al., 2016).

## 2.3 Prehistoric Setting

The chronology of coastal southern California is typically divided into three general time periods: the Early Holocene (11,000 to 8,000 Before Present [B.P.]), the Middle Holocene (8,000 to 4,000 B.P.), and the Late Holocene (4,000 B.P. to A.D. 1769). Within this timeframe, the archaeology of southern California is generally described in terms of cultural “complexes.” A complex is a specific archaeological manifestation of a general mode of life, characterized archaeologically by particular technologies, artifacts, economic systems, trade relationships, burial practices, and other aspects of culture.

While it is not certain when humans first came to California, their presence in southern California by about 11,000 B.P. has been well documented. At Daisy Cave, on San Miguel Island, cultural

remains have been radiocarbon dated to between 11,100 and 10,950 B.P. (Byrd and Raab, 2007). The first evidence of human occupation in the Los Angeles area dates to at least 9,000 years B.P. and is associated with the Millingstone cultures (Wallace, 1955; Warren, 1968), though rare occurrences of large, fluted points, known as Clovis points, suggest occupation of several thousand years older. Millingstone cultures were characterized by the collection and processing of plant foods, particularly acorns, and the hunting of a wide variety of game animals (Byrd and Raab, 2007; Wallace, 1955). Millingstone cultures established semi-permanent settlements that were located primarily on the coast and in the vicinity of estuaries, lagoons, lakes, streams, and marshes where a variety of resources, including seeds, fish, shellfish, small mammals, and birds, were exploited. Early Millingstone occupations are typically identified by the presence of handstones (manos) and millingstones (metates), while those Millingstone occupations dating later than 5,000 B.P. contain a mortar and pestle complex as well, signifying the exploitation of acorns.

During the Middle Holocene (8,000 to 4,000 B.P.), there is evidence for the processing of acorns for food and a shift toward a more generalized economy. Around 7,000 B.P., the climate of southern California became warmer and more arid and the human population, residing mainly in coastal or inland desert areas, began exploiting a wider range of plant and animal resources (Byrd and Raab, 2007).

During the Late Holocene (4,000 B.P. to A.D. 1769), many aspects of Millingstone culture persisted, but a number of socioeconomic changes occurred (Erlandson, 1994; Wallace, 1955; Warren, 1968). The native populations of southern California were becoming less mobile and populations began to gather in small sedentary villages with satellite resource-gathering camps. Increasing population size necessitated the intensified use of existing terrestrial and marine resources (Erlandson, 1994). Evidence indicates that the overexploitation of larger, high-ranked food resources may have led to a shift in subsistence, towards a focus on acquiring greater amounts of smaller resources, such as shellfish and small-seeded plants (Byrd and Raab, 2007). Around 1,000 B.P., there was an episode of sustained drought, known as the Medieval Climatic Anomaly. While this climatic event did not appear to reduce the human population, it did lead to a change in subsistence strategies in order to deal with the substantial stress on resources. The Late Holocene marks a period in which specialization in labor emerged, trading networks became an increasingly important means by which both utilitarian and non-utilitarian materials were acquired, and travel routes were extended. Trading reached its zenith during this time period, with asphaltum (tar), seashells and steatite being exchanged from southern California to the Great Basin. Major technological changes appeared as well, particularly with the advent of the bow and arrow, which largely replaced the use of the dart and atlatl. Small projectile points, ceramics, including Tizon brownware pottery, and obsidian from Obsidian Butte (Imperial County), are all representative artifacts of the Late Holocene.

## 2.4 Ethnographic Setting

The proposed Project site is located in a region traditionally occupied by the Takic-speaking Gabrielino Indians. The term “Gabrielino” is a general term that refers to those Native Americans who were administered by the Spanish at the Mission San Gabriel Arcángel. Many contemporary

Gabrielino identify themselves by the name "Tongva." Prior to European colonization, the Gabrielino occupied a diverse area that included: the watersheds of the Los Angeles, San Gabriel, and Santa Ana rivers; the Los Angeles basin; and the islands of San Clemente, San Nicolas, and Santa Catalina (Kroeber, 1925). Their neighbors included the Chumash to the north, the Juañeno to the south, and the Serrano and Cahuilla to the east. The Gabrielino are reported to have been second only to the Chumash in terms of population size and regional influence (Bean and Smith, 1978). The Gabrielino language was part of the Takic branch of the Uto-Aztecan language family.

The Gabrielino Indians were hunter-gatherers and lived in permanent communities located near stable food supplies. Subsistence consisted of hunting, fishing, and gathering. Small terrestrial game were hunted with deadfalls, rabbit drives, and by burning undergrowth, while larger game such as deer were hunted using bows and arrows. Fish were taken by hook and line, nets, traps, spears, and poison (Bean and Smith, 1978). The primary plant resources were the acorn, gathered in the fall and processed in mortars and pestles, and various seeds that were harvested in late spring and summer and ground with manos and metates. The seeds included chia and other sages, various grasses, and islay or holly-leafed cherry.

Community populations generally ranged from 50 to 100 inhabitants, although larger settlements may have existed. The Gabrielino are estimated to have had a population numbering around 5,000 in the pre-contact period (Kroeber, 1925). Villages are reported to have been the most abundant in the San Fernando Valley, the Glendale Narrows area north of downtown, and around the Los Angeles River's coastal outlets (Gumprecht, 2001).

## 2.5 Historic Setting

### Spanish Period (A.D. 1769-1821)

Although Spanish explorers made brief visits to the region in 1542 and 1602, sustained settlement and contact between Europeans and Native American inhabitants did not commence until the onset of the Spanish Period. In 1769 Gaspar de Portolá led an expedition from San Diego, passing through the Los Angeles Basin and the San Fernando Valley, on its way to the San Francisco Bay (McCawley, 1996). This was followed in 1776 by the expedition of Father Francisco Garcés (Johnson and Earle, 1990).

In the late 18$^{th}$ century, the Spanish began establishing missions in California and forcibly relocating and converting native peoples. The nearest mission to the Project site was Mission San Gabriel Arcángel, founded in 1771, located approximately 27.5 miles to the northeast.

In an effort to promote Spanish settlement of Alta California, Spain granted several large land concessions from 1784 to 1821. At this time, unless certain requirements were met, Spain retained title to the land (State Lands Commission [SLC], 1982).

## Mexican Period (A.D. 1821-1848)

The Mexican Period began when Mexico won its independence from Spain in 1821. Mexico continued to promote settlement of California with the issuance of land grants. In 1833, Mexico began the process of secularizing the missions, reclaiming the majority of mission lands and redistributing them as land grants. According to the terms of the Secularization Law of 1833 and Regulations of 1834, at least a portion of the lands would be returned to the Native populations, but this did not always occur (Milliken et al., 2009).

Many ranchos continued to be used for cattle grazing by settlers during the Mexican Period. Hides and tallow from cattle became a major export for Californios (native Hispanic Californians), many of whom became wealthy and prominent members of society. The Californios led generally easy lives, leaving the hard work to vaqueros (Hispanic cowhands) and Indian laborers (Pitt, 1994; Starr, 2007).

## American Period (A.D. 1848-present)

In 1846, the Mexican-American War broke out. Mexican forces were eventually defeated in 1847 and Mexico ceded California to the United States as part of the Treaty of Guadalupe Hildalgo in 1848. California officially became one of the United States in 1850. While the treaty recognized the right of Mexican citizens to retain ownership of land granted to them by Spanish or Mexican authorities, the claimant was required to prove their right to the land before a patent was given. The process was lengthy and generally resulted in the claimant losing at least a portion of their land to attorney's fees and other costs associated with proving ownership (Starr, 2007).

When the discovery of gold in northern California was announced in 1848, a huge influx of people from other parts of North America flooded into California. The increased population provided an additional outlet for the Californios' cattle. As demand increased, the price of beef skyrocketed and Californios reaped the benefits. However, a devastating flood in 1861, followed by droughts in 1862 and 1864, led to a rapid decline of the cattle industry; over 70 percent of cattle perished during these droughts (McWilliams, 1946; Dinkelspiel, 2008). This event, coupled with the burden of proving ownership of their lands, caused many Californios to lose their lands during this period (McWilliams, 1946). Former ranchos were subsequently subdivided and sold for agriculture and residential settlement.

The first transcontinental railroad was completed in 1869, connecting San Francisco with the eastern United States. Newcomers poured into northern California. Southern California experienced a trickle-down effect, as many of these newcomers made their way south. The Southern Pacific Railroad extended the line from San Francisco to Los Angeles in 1876. The second transcontinental line, the Santa Fe, was completed in 1886 and caused a fare war, driving fares to an unprecedented low. Settlers flooded into the region and the demand for real estate skyrocketed. As real estate prices soared, land that had been farmed for decades outlived its agricultural value and was sold to become residential communities. The subdivision of the large ranchos took place during this time (Meyer, 1981; McWilliams, 1946). During the first three decades of the 20th century, more than 2 million people moved to Los Angeles County, transforming it from a largely agricultural region into a major metropolitan area.

# 3. Regulatory Framework

## 3.1 State

### California Environmental Quality Act

CEQA is the principal statute governing environmental review of projects occurring in the state and is codified at *Public Resources Code (PRC) Section 21000 et seq.* CEQA requires lead agencies to determine if a proposed project would have a significant effect on the environment, including significant effects on historical or unique archaeological resources.

Under CEQA (Section 21084.1), a project that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment. An archaeological resource may qualify as an "historical resource" under CEQA. The *CEQA Guidelines* (Title 14 California Code of Regulations [CCR] Section 15064.5) recognize that an historical resource includes: (1) a resource listed in, or determined to be eligible by the State Historical Resources Commission, for listing in the California Register of Historical Resources (California Register); (2) a resource included in a local register of historical resources, as defined in PRC Section 5020.1(k) or identified as significant in a historical resource survey meeting the requirements of PRC Section 5024.1(g); and (3) any object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California by the lead agency, provided the lead agency's determination is supported by substantial evidence in light of the whole record. The fact that a resource does not meet the three criteria outlined above does not preclude the lead agency from determining that the resource may be an historical resource as defined in PRC Sections 5020.1(j) or 5024.1.

If a lead agency determines that an archaeological site is a historical resource, the provisions of Section 21084.1 of CEQA and Section 15064.5 of the *CEQA Guidelines* apply. If a project may cause a substantial adverse change (defined as physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired) in the significance of an historical resource, the lead agency must identify potentially feasible measures to mitigate these effects (*CEQA Guidelines* Sections 15064.5(b)(1), 15064.5(b)(4)).

If an archaeological site does not meet the criteria for a historical resource contained in the *CEQA Guidelines*, then the site may be treated in accordance with the provisions of Section 21083, which is as a unique archaeological resource. As defined in Section 21083.2 of CEQA a "unique" archaeological resource is an archaeological artifact, object, or site, about which it can be clearly demonstrated that without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

- Contains information needed to answer important scientific research questions and there is a demonstrable public interest in that information;

- Has a special and particular quality such as being the oldest of its type or the best available example of its type; or,

- Is directly associated with a scientifically recognized important prehistoric or historic event or person.

If an archaeological site meets the criteria for a unique archaeological resource as defined in Section 21083.2, then the site is to be treated in accordance with the provisions of Section 21083.2, which state that if the lead agency determines that a project would have a significant effect on unique archaeological resources, the lead agency may require reasonable efforts be made to permit any or all of these resources to be preserved in place (Section 21083.1(a)). If preservation in place is not feasible, mitigation measures shall be required.

The *CEQA Guidelines* note that if an archaeological resource is neither a unique archaeological nor a historical resource, the effects of the Project on those resources shall not be considered a significant effect on the environment (*CEQA Guidelines* Section 15064.5(c)(4)).

### *Paleontological Resources*

The CEQA Guidelines (Title 14, Chapter 3 of the California Code of Regulations, Section 15000 *et seq*.), define the procedures, types of activities, individuals, and public agencies required to comply with CEQA. As part of CEQA's Initial Study process, one of the questions that must be answered by the lead agency relates to paleontological resources: "Will the proposed project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?" (CEQA Guidelines Section 15023, Appendix G, Section XIV, Part a).

The loss of any identifiable fossil that could yield information important to prehistory, or that embodies the distinctive characteristics of a type of organism, environment, period of time, or geographic region, would be a significant environmental impact. Direct impacts to paleontological resources primarily concern the potential destruction of nonrenewable paleontological resources and the loss of information associated with these resources. This includes the unauthorized collection of fossil remains. If potentially fossiliferous bedrock or surficial sediments are disturbed, the disturbance could result in the destruction of paleontological resources and subsequent loss of information (significant impact). At the Project-specific level, direct impacts can be mitigated to a less than significant level through the implementation of paleontological mitigation.

The CEQA threshold of significance for a significant impact to paleontological resources is reached when a project is determined to "directly or indirectly destroy a significant paleontological resource or unique geologic feature." In general, for projects that are underlain by paleontologically sensitive geologic units, the greater the amount of ground disturbance, the higher the potential for significant impacts to paleontological resources. For projects that are directly underlain by geologic units with no paleontological sensitivity, there is no potential for impacts on paleontological resources unless sensitive geologic units which underlie the non-sensitive unit are also affected.

## California Register of Historical Resources

The California Register is "an authoritative listing and guide to be used by State and local agencies, private groups, and citizens in identifying the existing historical resources of the State and to indicate which resources deserve to be protected, to the extent prudent and feasible, from substantial adverse change" (PRC Section 5024.1[a]). The criteria for eligibility for the California Register are based upon National Register criteria (PRC Section 5024.1[b]). Certain resources are determined by the statute to be automatically included in the California Register, including California properties formally determined eligible for, or listed in, the National Register.

To be eligible for the California Register, a prehistoric or historic-period property must be significant at the local, state, and/or federal level under one or more of the following four criteria:

1. Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;

2. Is associated with the lives of persons important in our past;

3. Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or

4. Has yielded, or may be likely to yield, information important in prehistory or history.

A resource eligible for the California Register must meet one of the criteria of significance described above, and retain enough of its historic character or appearance (integrity) to be recognizable as a historical resource and to convey the reason for its significance. It is possible that a historic resource may not retain sufficient integrity to meet the criteria for listing in the National Register, but it may still be eligible for listing in the California Register.

Additionally, the California Register consists of resources that are listed automatically and those that must be nominated through an application and public hearing process. The California Register automatically includes the following:

- California properties listed on the National Register and those formally determined eligible for the National Register;

- California Registered Historical Landmarks from No. 770 onward; and,

- Those California Points of Historical Interest that have been evaluated by the OHP and have been recommended to the State Historical Commission for inclusion on the California Register.

Other resources that may be nominated to the California Register include:

- Historical resources with a significance rating of Category 3 through 5 (those properties identified as eligible for listing in the National Register, the California Register, and/or a local jurisdiction register);

- Individual historical resources;

- Historical resources contributing to historic districts; and,

- Historical resources designated or listed as local landmarks, or designated under any local ordinance, such as an historic preservation overlay zone.

## Assembly Bill 52 and Related Public Resources Code Sections

Assembly Bill (AB) 52 was approved by California State Governor Edmund Gerry "Jerry" Brown, Jr. on September 25, 2014. The act amended California PRC Section 5097.94, and added PRC Sections 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2, and 21084.3. AB 52 applies specifically to projects for which a Notice of Preparation (NOP) or a Notice of Intent to Adopt a Negative Declaration or Mitigated Negative Declaration (MND) will be filed on or after July 1, 2015. The primary intent of AB 52 was to include California Native American Tribes early in the environmental review process and to establish a new category of resources related to Native Americans that require consideration under CEQA, known as tribal cultural resources. PRC Section 21074(a)(1) and (2) defines tribal cultural resources as "sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American Tribe" that are either included or determined to be eligible for inclusion in the California Register or included in a local register of historical resources, or a resource that is determined to be a tribal cultural resource by a lead agency, in its discretion and supported by substantial evidence. On July 30, 2016, the California Natural Resources Agency adopted the final text for tribal cultural resources update to Appendix G of the CEQA Guidelines, which was approved by the Office of Administrative Law on September 27, 2016.

PRC Section 21080.3.1 requires that within 14 days of a lead agency determining that an application for a project is complete, or a decision by a public agency to undertake a project, the lead agency provide formal notification to the designated contact, or a tribal representative, of California Native American Tribes that are traditionally and culturally affiliated with the geographic area of the project (as defined in PRC Section 21073) and who have requested in writing to be informed by the lead agency (PRC Section 21080.3.1(b)). Tribes interested in consultation must respond in writing within 30 days from receipt of the lead agency's formal notification and the lead agency must begin consultation within 30 days of receiving the tribe's request for consultation (PRC Sections 21080.3.1(d) and 21080.3.1(e)).

PRC Section 21080.3.2(a) identifies the following as potential consultation discussion topics: the type of environmental review necessary; the significance of tribal cultural resources; the significance of the project's impacts on the tribal cultural resources; project alternatives or appropriate measures for preservation; and mitigation measures. Consultation is considered concluded when either: (1) the parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or (2) a party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached (PRC Section 21080.3.2(b)).

If a California Native American tribe has requested consultation pursuant to Section 21080.3.1 and has failed to provide comments to the lead agency, or otherwise failed to engage in the consultation process, or if the lead agency has complied with Section 21080.3.1(d) and the

California Native American tribe has failed to request consultation within 30 days, the lead agency may certify an EIR or adopt an MND (PRC Section 21082.3(d)(2) and (3)).

PRC Section 21082.3(c)(1) states that any information, including, but not limited to, the location, description, and use of the tribal cultural resources, that is submitted by a California Native American tribe to the lead (or public) agency during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public without the prior consent of the tribe that provided the information. If the lead agency publishes any information submitted by a California Native American tribe during the consultation or environmental review process, that information shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public.

## California Health and Safety Code Section 7050.5

California Health and Safety Code Section 7050.5 requires that in the event human remains are discovered, the County Coroner be contacted to determine the nature of the remains. In the event the remains are determined to be Native American in origin, the Coroner is required to contact the NAHC within 24 hours to relinquish jurisdiction.

## California Public Resources Code Section 5097.98

California PRC Section 5097.98, as amended by Assembly Bill 2641, provides procedures in the event human remains of Native American origin are discovered during Project implementation. PRC Section 5097.98 requires that no further disturbances occur in the immediate vicinity of the discovery, that the discovery is adequately protected according to generally accepted cultural and archaeological standards, and that further activities take into account the possibility of multiple burials. PRC Section 5097.98 further requires the NAHC, upon notification by a County Coroner, designate and notify a Most Likely Descendant (MLD) regarding the discovery of Native American human remains. Once the MLD has been granted access to the site by the landowner and inspected the discovery, the MLD then has 48 hours to provide recommendations to the landowner for the treatment of the human remains and any associated grave goods.

In the event that no descendant is identified, or the descendant fails to make a recommendation for disposition, or if the land owner rejects the recommendation of the descendant, the landowner may, with appropriate dignity, reinter the remains and burial items on the property in a location that will not be subject to further disturbance.

## Public Resources Code Section 5097.5 and Section 30244

Other state requirements for paleontological resource management are included in PRC Section 5097.5 and Section 30244. These statutes prohibit the removal of any paleontological site or feature from public lands without permission of the jurisdictional agency, define the removal of paleontological sites or features as a misdemeanor, and require reasonable mitigation of adverse impacts to paleontological resources from developments on public (state, county, city, district) lands.

# 3.2 Local

## City of Los Angeles General Plan

The City of Los Angeles General Plan (adopted 2001) states as its objective, to "protect the city's archaeological and paleontological resources for historical, cultural, research, and/or educational purposes" by continuing "to identify and protect significant archaeological and paleontological resources known to exist or that are identified during land development, demolition, or property modification activities."

In addition, the City will:

> continue to protect historic and cultural sites and/or resources potentially affected by proposed land development, demolition, or property modification activities…The city's environmental guidelines require the applicant to secure services of a bona fide archaeologist to monitor excavations or other subsurface activities associated with a development project in which all or a portion is deemed to be of archaeological significance. Discovery of archaeological materials may temporarily halt the project until the site has been assessed, potential impacts evaluated and, if deemed appropriate, the resources protected, documented and/or removed *(City of Los Angeles, 2001).*

The General Plan also contains the following statement regarding paleontological resources:

> *Pursuant to CEQA, if a land development project is within a potentially significant paleontological area, the developer is required to contact a bona fide paleontologist to arrange for assessment of the potential impact and mitigation of potential disruption of or damage to the site. If significant paleontological resources are uncovered during project execution, authorities are to be notified and the designated paleontologist may order excavations stopped, within reasonable time limits, to enable assessment, removal or protection of the resources. For Los Angeles city and county, the Los Angeles County Museum of Natural History, including the George C. Page Museum, provides advice concerning paleontological resources.*

In addition, the Los Angeles Municipal Code (LAMC) Section 91.106.4.5 states that the Building Department "shall not issue a permit to demolish, alter or remove a building or structure of historical, archaeological or architectural consequence if such building or structure has been officially designated" by a federal, state, or local authority.

## LAUSD

The SUP Program EIR was certified by LAUSD on November 10, 2015.[3] The overall purpose of the EIR was to inform LAUSD (lead agency), responsible agencies, decision makers, and the general public of the potential environmental effects from implementation of the SUP, and to streamline future CEQA compliance. The SUP Program EIR included Standard Conditions to

[3] LAUSD. 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.

provide sufficient performance standards for future projects to reduce environmental impacts. The following Standard Conditions are applicable to archaeological and paleontological resources.

**TABLE 1**
**SUP PROGRAM EIR – APPLICABLE CULTURAL RESOURCES STANDARD CONDITIONS**

| Reference | Topic | Trigger for Compliance | Implementation Phase | Standard Conditions |
|---|---|---|---|---|
| SC-CUL-7 | Archaeological Resource | Project area is deemed highly sensitive for archaeological resources. | Prior to and during grading, excavation, or other ground disturbing activities | LAUSD shall retain a qualified archaeologist to be available on-call. The qualified archaeologist shall meet the Secretary of the Interior's Professional Qualifications Standards (48 Federal Register 44738–39). |
| SC-CUL-8 | Historic and Archaeological Resource | Historical or unique archaeological resources are discovered during construction activities. | During grading, excavation, or other ground disturbing activities | The contractor shall halt construction activities in the immediate area and notify the LAUSD. LAUSD shall retain a qualified archeologist to make an immediate evaluation of significance and appropriate treatment of the resource. To complete this assessment, the qualified archeologist will be afforded the necessary time to recover, analyze, and curate the find. The qualified archeologist shall recommend the extent of archeological monitoring necessary to ensure the protection of any other resources that may be in the area. Construction activities may continue on other parts of the building site while evaluation and treatment of historical or unique archaeological resources takes place. |
| SC-CUL-9 | Archaeological Resource Monitoring Program | Phase I Archaeological Site Investigation shows a strong possibility that unique resources, and/or unique architectural resources have been identified on a site. | Prior to the start of construction | LAUSD shall implement an archaeological monitoring program for construction activities at a site prepared by a qualified archaeologist under the following conditions: (1) when a Phase I Site Investigation shows a strong possibility that unique archeological resources are buried on the site; and/or (2) when unique architectural resources have been identified on a site, but LAUSD does not implement a Phase III Data Recovery/Mitigation Program because the resources can be recovered through the archaeological monitoring program. |
| SC-CUL-10 | Archaeological Resource | Evidence of prehistoric or historic cultural resources is uncovered. | During grading, excavation, or other ground disturbing activities | All work shall stop within a 30 foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist. The qualified archaeologist shall assess the find(s) and, if it is determined to be of value, shall draft a monitoring program and oversee the remainder of the grading program. Should evidence of prehistoric or historic cultural resources be found the archaeologist shall monitor all ground-disturbing activities related to the proposed project. Any significant archaeological resources found shall be preserved as determined necessary by the archaeologist and offered to a local museum or repository willing to accept the resource. Any resulting reports shall also be forwarded to the South Central Coastal Information Center at the California State University, Fullerton. |

| Reference | Topic | Trigger for Compliance | Implementation Phase | Standard Conditions |
|---|---|---|---|---|
| SC-CUL-11 | Archaeological Resource | Project construction requires archaeological monitoring | Prior to the start grading, excavation, or other ground disturbing activities | Cultural resources sensitivity training shall be conducted by a qualified archaeologist for all construction workers involved in moving soil or working near soil disturbance. This training shall review the types of archaeological resources that might be found, along with laws for the protection of resources. |
| SC-CUL-12 | Archaeological Resource | Unique archaeological resources are discovered and LAUSD determines not to avoid them by abandoning the site or redesigning the project | During grading, excavation, or other ground disturbing activities | LAUSD shall determine whether it is feasible to prepare and implement a Phase III Data Recovery/Mitigation Program. A Phase III Data Recovery/Mitigation Program would be designed by a Qualified Archaeologist to recover a statistically valid sample of the archaeological remains and to document the site to a level where the impacts can be determined to be less than significant. All documentation shall be prepared in the standard format of the ARMR Guidelines, as prepared by the OHP. Once a Phase III Data Recovery/Mitigation Program is completed, an archaeological monitor shall be present on site to oversee the grading, demolition activities, and/or initial construction activities to ensure that construction proceeds in accordance with the adopted Phase III Data Recovery/Mitigation Program. The extent of the Phase III Data Recovery/Mitigation Program and the extent and duration of the archaeological monitoring program depend on site-specific factors. |
| SC-CUL-13 | Native American Resource | Evidence of Native American Resources is Uncovered | During grading, excavation, or other ground-disturbing activities<br>(Construction) | All work shall stop within a 30 foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist and the local Native American representative has been contacted and consulted to assist in the accurate recordation and recovery of the resources. |
| SC-CUL-14 | Paleontological Resource | Cultural Resources Assessment identifies the project area as sensitive for paleontological resources. | During grading, excavation, or other ground disturbing activities | LAUSD shall have paleontological monitor on-call during construction activities. This monitor shall provide the construction crew(s) with a brief summary of the sensitivity, the rationale behind the need for protection of these resources, and information on the initial identification of paleontological resources. If paleontological resources are uncovered during construction, the on-call paleontologist shall be notified and afforded the necessary time and funds to recover, analyze, and curate the find(s). Subsequently, the monitor shall remain on site for the duration of the ground disturbances to ensure the protection of any other resources that may be in the area. |
| SC-CUL-15 | Paleontological Resource | Project area is deemed highly sensitive for paleontological resources. | During grading, excavation, or other ground disturbing activities | The paleontological monitor shall be on site for all ground altering activities and shall advise LAUSD as to necessary means of protecting potentially significant paleontological resources, including, but not limited to, possible cessation of construction activities in the immediate area of a find. If resources are identified during the monitoring program, the paleontologist shall be afforded the necessary time and funds to recover, analyze, and curate the find(s). Subsequently, the monitor shall remain on site for the duration of the ground disturbances to insure the protection of any other resources that may be in the area. |

## Society for Vertebrate Paleontology Professional Standards

The Society for Vertebrate Paleontology (SVP) has established standard guidelines for acceptable professional practices in the conduct of paleontological resource assessments and surveys, monitoring and mitigation, data and fossil recovery, sampling procedures, and specimen preparation, identification, analysis, and curation. Most practicing professional paleontologists in the nation adhere closely to the SVP's assessment, mitigation, and monitoring requirements as specifically provided in its standard guidelines. Most California State regulatory agencies accept the SVP standard guidelines as a measure of professional practice.

As defined by the SVP (2010: 11), significant nonrenewable paleontological resources are:

> *fossils and fossiliferous deposits, here defined as consisting of identifiable vertebrate fossils, large or small, uncommon invertebrate, plant, and trace fossils, and other data that provide taphonomic, taxonomic, phylogenetic, paleoecologic, stratigraphic, and/or biochronologic information. Paleontological resources are considered to be older than recorded human history and/or older than middle Holocene (i.e., older than about 5,000 radiocarbon years).*

As defined by the SVP (1995:26), significant fossiliferous deposits are:

> *a rock unit or formation which contains significant nonrenewable paleontologic resources, here defined as comprising one or more identifiable vertebrate fossils, large or small, and any associated invertebrate and plant fossils, traces, and other data that provide taphonomic, taxonomic, phylogenetic, ecologic, and stratigraphic information (ichnites and trace fossils generated by vertebrate animals, e.g., trackways, or nests and middens which provide datable material and climatic information).*

Based on the significance definitions of the SVP (1995, 2010), all identifiable vertebrate fossils are considered to have significant scientific value. This position is adhered to because vertebrate fossils are relatively uncommon, and only rarely will a fossil locality yield a statistically significant number of specimens of the same genus. Therefore, every vertebrate fossil found has the potential to provide significant new information on the taxon it represents, its paleoenvironment, and/or its distribution. Furthermore, all geologic units in which vertebrate fossils have previously been found are considered to have high sensitivity. Identifiable plant and invertebrate fossils are considered significant if found in association with vertebrate fossils or if defined as significant by Project paleontologists, specialists, or local government agencies.

A geologic unit known to contain significant fossils is considered "sensitive" to adverse impacts if there is a high probability that earth-moving or ground-disturbing activities in that rock unit will either directly or indirectly disturb or destroy fossil remains. The limits of the entire rock formation, both areal and stratigraphic, therefore define the scope of the paleontological potential in each case (SVP, 1995).

Fossils are contained within surficial sediments or bedrock, and are therefore not observable or detectable unless exposed by erosion or human activity. In summary, paleontologists cannot know either the quality or quantity of fossils prior to natural erosion or human-caused exposure.

As a result, even in the absence of surface fossils, it is necessary to assess the sensitivity of rock units based on their known potential to produce significant fossils elsewhere within the same geologic unit (both within and outside of the study area), a similar geologic unit, or based on whether the unit in question was deposited in a type of environment that is known to be favorable for fossil preservation. Monitoring by experienced paleontologists greatly increases the probability that fossils will be discovered during ground-disturbing activities and that, if these remains are significant, successful mitigation and salvage efforts may be undertaken in order to prevent adverse impacts to these resources.

## Paleontological Sensitivity

Paleontological sensitivity is defined as the potential for a geologic unit to produce scientifically significant fossils. This is determined by rock type, past history of the geologic unit in producing significant fossils, and fossil localities recorded from that unit. Paleontological sensitivity is derived from the known fossil data collected from the entire geologic unit, not just from a specific survey. In its "Standard Guidelines for the Assessment and Mitigation of Adverse Impacts to Paleontologic Resources," the SVP (2010: 1-2) defines four categories of paleontological sensitivity (potential) for rock units: high, low, undetermined, and no potential:

- **High Potential**. Rock units from which vertebrate or significant invertebrate, plant, or trace fossils have been recovered are considered to have a high potential for containing additional significant paleontological resources. Rocks units classified as having high potential for producing paleontological resources include, but are not limited to, sedimentary formations and some volcaniclastic formations (e. g., ashes or tephras), and some low-grade metamorphic rocks which contain significant paleontological resources anywhere within their geographical extent, and sedimentary rock units temporally or lithologically suitable for the preservation of fossils (e. g., middle Holocene and older, fine-grained fluvial sandstones, argillaceous and carbonate-rich paleosols, cross-bedded point bar sandstones, fine-grained marine sandstones, etc.). Rock units which contain potentially datable organic remains older than late Holocene, including deposits associated with animal nests or middens, and rock units which may contain new vertebrate deposits, traces, or trackways are also classified as having high potential.

- **Low Potential**. Reports in the paleontological literature or field surveys by a qualified professional paleontologist may allow determination that some rock units have low potential for yielding significant fossils. Such rock units will be poorly represented by fossil specimens in institutional collections, or based on general scientific consensus only preserve fossils in rare circumstances and the presence of fossils is the exception not the rule, e.g. basalt flows or Recent colluvium. Rock units with low potential typically will not require impact mitigation measures to protect fossils.

- **Undetermined Potential**. Rock units for which little information is available concerning their paleontological content, geologic age, and depositional environment are considered to have undetermined potential. Further study is necessary to determine if these rock units have high or low potential to contain significant paleontological resources. A field survey by a qualified professional paleontologist to specifically determine the paleontological resource potential of these rock units is required before a paleontological resource impact mitigation program can be developed. In cases where no subsurface data are available, paleontological

potential can sometimes be determined by strategically located excavations into subsurface stratigraphy.

- **No Potential**. Some rock units have no potential to contain significant paleontological resources, for instance high-grade metamorphic rocks (such as gneisses and schists) and plutonic igneous rocks (such as granites and diorites). Rock units with no potential require no protection nor impact mitigation measures relative to paleontological resources.

For geologic units with high potential, full-time monitoring is generally recommended during any Project-related ground disturbance (SVP, 2010). For geologic units with low potential, full-time monitoring will not generally be required. For geologic units with undetermined potential, field surveys by a qualified vertebrate paleontologist should be conducted to specifically determine the paleontologic potential of the rock units present within the Project area.

# 4. Archival Research

## 4.1 SCCIC Records Search

A records search for the proposed project was conducted on December 6, 2017 at the California Historic Resources Inventory System (CHRIS) South Central Coastal Information Center (SCCIC) housed at California State University, Fullerton. The records search included a review of all recorded archaeological sites within a ½-mile radius of the proposed Project, as well as a review of cultural resource reports on file. In addition, the California Points of Historical Interest (PHI), the California Historical Landmarks (CHL), the California Register of Historic Resources (California Register), the National Register, and the California State Historic Resources Inventory (HRI) listings were reviewed for properties within or adjacent to the proposed Project site.

### Previous Cultural Resources Investigations

The records search indicates that seven cultural resources studies have been conducted within a ½-mile of the proposed Project (**Table 2**). Less than five percent of the ½-mile records search area has been included in previous studies. Of the seven studies, none have included the Project site.

### Previously Recorded Cultural Resources

The records search results indicate that no archaeological resources (historic or prehistoric) have been recorded within the Project site or the ½-mile radius. One historic-period built resource (19-175245, the San Pedro HS itself) has been recorded within the boundaries of the Project site. This resource is discussed in a separate technical report prepared for the project titled, San Pedro High School Comprehensive Modernization Project Historic Resources Technical Report provided as Appendix C of the Draft EIR.

**TABLE 2**
**PREVIOUS CULTURAL RESOURCES INVESTIGATIONS WITHIN 1/2 MILE OF THE PROPOSED PROJECT**

| Author | SCCIC # (LA-) | Title | Date |
|---|---|---|---|
| Winman, Lois J. and E. Gary Stickel | 02399 | *Los Angeles-Long Beach Harbor Areas Cultural Resource Survey.* | 1978 |
| Bonner, Wayne H. and Kathleen A. Crawford | 08834 | *Cultural Resources Records Search and Site Visit Results for Royal Street Communications, LLC Candidate La2633a (w. 15th St. & Cabrillo), 1707 South Gaffey Street, San Pedro, Los Angeles County, California* | 2007 |
| Carmack, Shannon and Judith Marvin | 09324 | *Cultural Resource Assessment Verizon Wireless Meyler Facility Community of San Pedro, Los Angeles County, California* | 2005 |
| Crawford, Kathleen | 09360 | *Direct APE Historic Architectural Assessment for AT&T Telecommunications Facility Candidate 950031012 (9th Street and CA-110) 1002 South Gaffey Street, San Pedro, Los Angeles County, California* | 2004 |
| Bonner, Wayne H. | 10012 | *Cultural Resources Records Search Results and Site Visit for Cingular Wireless Candidate Lsanca0199a (alma & 25th), 2303 South Alma Street, San Pedro, Los Angeles County, California.* | 2005 |
| Weinman, Lois J. | 10527 | *Los Angeles-Long Beach Harbor Areas Regional Cultural History, Los Angeles County, California* | 1978 |
| Shepard, Richard S. | 11006 | *Phase I/Class II Archaeological Survey: Daniels Field Improvements Project, San Pedro Area, City of Los Angeles, Los Angeles County, California* | 2011 |

ESA, 2017

Although no archaeological resources have been recorded within the ½-mile radius, review of a previous ESA project (Garcia and Clark, 2017) located approximately 1-mile away indicated that buried slit trenches (associated with the remains of a military defense) and artifacts were encountered within soil materials classified as fill, and essentially identical to the fill found within the proposed Project site (Garcia and Clark, 2017).

## 4.2 LACM Paleontological Records Search

A paleontological records search was conducted by the Natural History Museum of Los Angeles County (LACM) on December 11, 2017. The results indicate that no fossil localities are known from within the proposed Project site. However, the LACM has pointed out that there are localities close by from the same sedimentary deposits that occur within the Project site (McLeod, 2017).

The LACM reported that exposures of the marine upper Miocene Valmonte Diatomite Member of the Monterey Formation are located within the Project site. The closest locality from the Valmonte Diatomite is LACM 4993, located approximately 1.0 mile from the Project site, which produced fossil specimens of lampfish (*Lampanyctus petrolifer*) and cod (*Gadiformes*). Another locality (LACM 1925) from the Valmonte Diatomite is situated approximately 1.5 miles from the Project site and yielded fossil specimens of sevengill shark (*Notorynchus maculatus*), viperfish (*Chauliodus eximius*), croaker (*Lompoquia*), cod (*Eclipes*), pipefish (*Syngnathus avus*),

flounder (Pleuronectiformes) bristlemouth (*Cyclothone*), herring (*Ganolytes*), and lanternfish (Myctophidae) (McLeod, 2017). All of these localities were recovered from unknown depths.

The LACM has also stated that the Project site has exposures of the marine middle Miocene Altamira Shale Member of the Monterey Formation. The closest fossil localities (LACM 7472-7474) from the Altamira Shale, located approximately 1.0 mile from the Project site yielded fossil specimens of herring (*Ganolytes* and *Xyne*) and croaker (*Lompoquia*). Approximately 2.0 miles from LACM 7472-7474, fossil localities LACM 1898, 1927, 4446 and 5460 produced fossil specimens of seahorse (*Hipposyngnathus imporcitor*), wahoo (*Scomberomorus*), sealion (*Atopotaurus courseni*), a marine mammal (*Paleoparadoxia*), dolphin (Delphinidae), and a primitive baleen whale (Cetotheriidae). Approximately 1.4 miles from the Project site, LACM (CIT) 341 yielded fossil specimens of butterfly ray (*Pteroplatea lapislutosa*), herring (*Opisthonema palosverdensis*), cod (*Eclipes extensus*), tuna (*Alciola* and *Thunnus*), and pipefish (*Syngnathus*). LACM 3888 yielded fossil specimens of booby (Sulidae), porpoise (Phocoenidae), and baleen whale (Mysticeti). LACM 5162 (also located approximately 1.3 miles from the Project site) produced a fossil specimen of a sperm whale (Physeteridae). Lastly, LACM 1348 (located 1.3 miles from the Project site) yielded fossil specimens of leatherback turtle (Dermochelyidae) (McLeod, 2017). All of these localities were recovered from unknown depths.

According to the records search results, excavations into the Valmonte Diatomite Member or the Altamira Shale Member, of the Monterey Formation could yield fossil vertebrates and any substantial excavations in the Project site should be closely monitored (McLeod, 2017).

# 5. Additional Research

## 5.1 Historic Map and Aerial Review

Historic maps were examined to provide historical information about the proposed Project site and vicinity, and to contribute to an assessment of the proposed Project's archaeological sensitivity. Reviewed historic topographic maps included the 1896 San Pedro 15-minute topographic quadrangle. Sanborn Fire Insurance maps for the years 1921, 1950, and 1969 (Clark Seif Clark, 2016) were also reviewed, as well as current Google Earth aerial imagery from 2016.

Review of the 1896 topographic map indicates that the Project site was undeveloped at that time. The Sanborn map review indicates that by 1921 the Project site was developed with several family dwellings. Sanborn map review also shows that by 1950, the Project site was developed, with dwellings, some associated garages,and six structures of the San Pedro HS By 1969, the Sanborn map review shows that the Project site was still developed with dwellings.Several large structures of San Pedro HS are also observed by this time. Review of current aerial imagery (dated 10/18/2016) indicates that no family dwellings (previously observed in the topographic and Sanborn maps) now exist within the Project site, and that the entire Project site is developed with buildings, landscaping, and hardscape for the San Pedro HS.

## 5.2 Paleontological Resources Literature Review

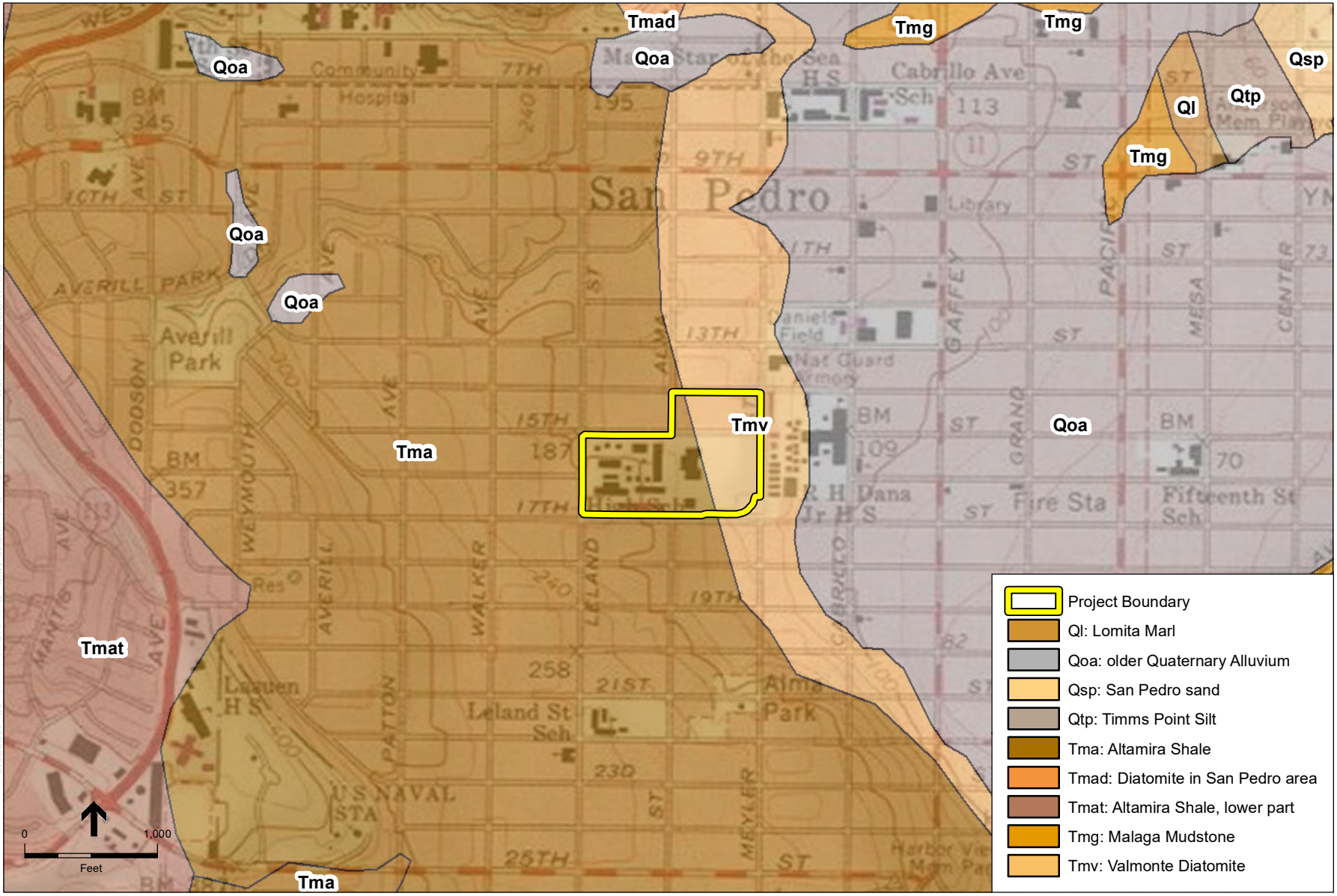
A desktop review was conducted to assess the potential of the geologic units in the Project site to preserve fossil resources. The surficial geology of the Project site has been mapped by Dibblee et al. (1999) at a scale of 1: 24,000. The Project site consists of the Valmonte Diatomite Member (Tmv) of the Monterey Formation andthe Altamira Shale Member (Tma) of the Monterey Formation (**Figure 3**). These units are discussed in detail below.

**Valmonte Diatomite Member (Tmv**). This unit consists of soft, white, punky diatomaceous shale and mudstone that is laminated and up to 125 m thick, dating to the upper Miocene (approximately 12 million years old) (Dibblee et al., 1999). In addition to the fossils noted above by the LACM records search, fossil resources such as whales and other marine mammals, fishes, cephalopods, mollusks, and others from the Valmonte Diatomite have been published extensively in the scientific literature (e.g., Barnes, 1976; Crane, 1966; David, 1943; Saul and Stadum, 2005; Woodring et al., 1946). Given the documented history of the presence of significant fossil resources in the Valmonte Diatomite, this unit has **high paleontological sensitivity**.

**Altamira Shale Member (Tma).** This unit consists of white-weathering, thin bedded siliceous and phosphatic shale with interbeds of limestone and siltstone up to 40 m thick, overlying 15 m of cherty and porcelaneous shale from the middle Miocene (approximately 14 million years old) (Dibblee et al., 1999). In addition to the fossils noted above by the LACM records search, fossil resources very similar to those noted above for the Valmonte Diatomite, such as whales and other marine mammals, fishes, cephalopods, crustaceans, mollusks, and others from the Valmonte Diatomite have been published extensively in the scientific literature (e.g., Bell et al., 2009; Barnes, 1976; David, 1943; Downs, 1956; Hof and Schram, 1998; Woodring et al., 1946). Given the documented history of the presence of significant fossil resources in the Altamira Shale, this unit has **high paleontological sensitivity**.

### *Geotechnical Investigation Review*

A report prepared by Group Delta Consultants, Inc. (2016) detailing the results of a geotechnical investigation was reviewed. A total of 15 borings was drilled to depths of about 26.5 feet below existing grades within the Project site. Review of the boring logs and the exploration location plan indicated that borings 1-3, 5-7, and 14-15 (drilled within the central, northwest, and a small portion of the southwest area, respectively) yielded fill materials starting from just below asphalt surface down to a maximum depth of 16.5 feet below grade, below which was diatomaceous siltstone, present to the end of the boring.




SOURCE: Dibblee Geological Foundation

San Pedro High School Comprehensive Modernization Project . 211085.31

**Figure 3**
Geology Map

The boring logs and exploration location plan also revealed that borings 4 and 8 -14 (drilled in the southwestern portion of the Project site) found diatomaceous siltstone present from just below surface asphalt to the end of the borings (the deepest of which was 26.5 feet below surface) (Group Delta Consultants, Inc. 2016). The boring logs from previous geotechnical studies of the site were all also included in the Group Delta Consultants, Inc. (2016) study, and were generally consistent with 3-8 feet of artificial fill overlying diatomaceous shale or siltstone, identified as the Valmonte Diatomite.

# 6. Sacred Lands File Search

The NAHC maintains a confidential SLF which contains sites of traditional, cultural, or religious value to the Native American community. The NAHC was contacted on November 27, 2017 to request a search of the SLF. The NAHC responded to the request in a letter dated November 29, 2017 (**Appendix B**). The SLF yielded negative results; however, the NAHC noted that the negative results of the SLF search does not preclude the existence of Native American resources within the Project site (Quinn, 2017).

# 7. Conclusion and Recommendations

## 7.1 Archaeological Resources

No archaeological resources were identified within the Project site as a result of this study. However, this does not preclude the possibility that subsurface archaeological deposits underlie the Project site. Archival research indicates that, prior to the construction of the school, several portions of the Project site were developed with former family dwellings as early as 1921. Review of the geotechnical report (Group Delta Consultants, Inc. 2016) revealed that fill soil materials are located within the Project site from just below the asphalt down to a depth of 16.5 feet below grade. Research conducted for a previous ESA project (located in the general vicinity of the Project site) also indicated that buried features and artifacts were found within soil materials classified as fill, and it is presumed that this is the same fill that occurs within the proposed Project site. Based on these results, there is potential for the Project site to preserve historic-period archaeological resources (associated with the former family dwellings) even in fill soils under the current foundations of the school buildings, landscaping, and hardscape. Since the Project includes ground disturbance, previously undocumented archaeological resources could be encountered during construction. If any such resources were found to be significant, the proposed Project could result in a significant impact to archaeological resources that qualify as historical resources or unique archaeological resources under CEQA. As such, LAUSD's Standard Conditions of Approval (SCs), SC-CUL-7 through SC-CUL-13 would be incorporated to ensure that impacts remain at levels that are less than significant:

> **SC-CUL-7:** LAUSD shall retain a qualified archaeologist to be available on-call. The qualified archaeologist shall meet the Secretary of the Interior's Professional Qualifications Standards (48 Federal Register 44738–39).
>
> **SC-CUL-8:** If potential historical or unique archaeological resources are discovered during construction activities, the contractor shall halt construction activities in the

immediate area and notify LAUSD. LAUSD shall retain a qualified archeologist to make an immediate evaluation of significance and appropriate treatment of the resource. To complete this assessment, the qualified archeologist will be afforded the necessary time to recover, analyze, and curate the find. The qualified archeologist shall recommend the extent of archeological monitoring necessary to ensure the protection of any other resources that may be in the area. Construction activities may continue on other parts of the Project site while evaluation and treatment of historical or unique archaeological resources takes place.

**SC-CUL-9:** LAUSD shall implement an archaeological monitoring program for construction activities at a site prepared by a qualified archaeologist under the following conditions: (1) when a Phase I Site Investigation shows a strong possibility that unique archeological resources are buried on the site; and/or (2) when unique architectural resources have been identified on a site, but LAUSD does not implement a Phase III Data Recovery/Mitigation Program because the resources can be recovered through the archaeological monitoring program.

The Project site has a strong possibility of containing subsurface archaeological materials that could qualify as historical resources or unique archaeological resources, and these resources could be impacted by construction. Given this, per condition (1) of SC-CUL-9, an archaeological monitoring program shall be implemented during Project-related ground disturbing activity.

**SC-CUL-10:** If evidence of prehistoric or historic cultural resources is uncovered, all work shall stop within a 30foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist. The qualified archaeologist shall assess the find(s) and, if it is determined to be of value, shall draft a monitoring program and oversee the remainder of the grading program. Should evidence of prehistoric or historic cultural resources be found the archaeologist shall monitor all ground-disturbing activities related to the proposed project. Any significant archaeological resources found shall be preserved as determined necessary by the archaeologist and offered to a local museum or repository willing to accept the resource. Any resulting reports shall also be forwarded to the South Central Coastal Information Center at the California State University, Fullerton.

**SC-CUL-11:** Cultural resources sensitivity training shall be conducted by a qualified archaeologist for all construction workers involved in moving soil or working near soil disturbance. This training shall review the types of archaeological resources that might be found, along with laws for the protection of resources.

**SC-CUL-12:** If archeological resources qualifying as unique archaeological resources are discovered and LAUSD determines not to avoid them by abandoning the site or redesigning the project, LAUSD will determine whether it is feasible to prepare and implement a Phase III Data Recovery/Mitigation Program. A Phase III Data Recovery/Mitigation Program would be designed by the Qualified Archaeologist to recover a statistically valid sample of the archaeological remains and to document the site to a level where the impacts can be determined to be less than significant. All documentation will be prepared in the standard format of the ARMR Guidelines, as prepared by the OHP. Once a Phase III Data Recovery/Mitigation Program is completed, an archaeological monitor will be present on site to oversee the grading, demolition activities, and/or initial construction activities to ensure that construction proceeds in

accordance with the adopted Phase III Data Recovery/Mitigation Program. The extent of the Phase III Data Recovery/Mitigation Program and the extent and duration of the archaeological monitoring program depend on site-specific factors.

**SC-CUL-13:** If evidence of Native American resources is uncovered during construction, then all work shall stop within a 30 foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist and the local Native American representative has been contacted and consulted to assist in the accurate recordation and recovery of the resources.

## 7.2 Paleontological Resources

No paleontological resources were identified within the Project site. However, background research conducted for the project indicates that the proposed Project is underlain by the Valmonte Diatomite Member of the Monterey Formation and the Altamira Shale Member of the Monterey Formation. Both of these units have a strong record of fossil preservation, as recorded in the scientific literature review, as well as multiple LACM fossil localities in the San Pedro area. Therefore, these units are assigned **high paleontological sensitivity.** Ground-disturbing activities for the proposed Project could therefore result in a significant impact to unique paleontological resources under CEQA. As such, SC-CUL-14 and the associated mitigation measures CUL-1 through -3 would be incorporated to ensure that impacts remain at levels that are less than significant:

**SC-CUL-14:** A qualified paleontologist meeting the Society of Vertebrate Paleontology (SVP) Standards (SVP, 2010) (Qualified Paleontologist) shall be retained by LAUSD prior to the approval of demolition or grading permits. The Qualified Paleontologist shall provide technical and compliance oversight of all work as it relates to paleontological resources, shall attend the Project kick-off meeting and Project progress meetings on a regular basis, and shall report to the site in the event potential paleontological resources are encountered.

**CUL-1:** The Qualified Paleontologist shall conduct initial construction worker paleontological resources sensitivity training prior to the start of ground disturbing activities (including vegetation removal, pavement removal, etc.). In the event construction crews are phased, additional trainings shall be conducted for new construction personnel. Subsequent training sessions may be provided by a paleontological monitor or in a video format. The content of the training materials provided by a paleontological monitor or in a video shall require approval by the Qualified Paleontologist before being used in a training session. The training session shall focus on the recognition of the types of paleontological resources that could be encountered within the Project site and the procedures to be followed if they are found. Documentation shall be retained demonstrating that all construction personnel attended the training.

**CUL-2:** Paleontological monitoring of previously undisturbed sediments (both the Valmonte Diatomite and the Altamira Shale) shall be conducted full-time by a qualified paleontological monitor (SVP, 2010) under the supervision of the Qualified Paleontologist. Previous geotechnical studies of the site by Group Delta Consultants, Inc. (2016) identified depths of fill at boreholes across the site, which can be used as a guide for identifying sediments that have been previously disturbed. Monitors shall have the

authority to temporarily halt or divert work away from exposed fossils in order to recover the fossil specimens. Any significant fossils collected during Project-related excavations shall be prepared to the point of identification and curated into an accredited repository with retrievable storage. Monitors shall prepare daily logs detailing the types of activities and soils observed, and any discoveries. The Qualified Paleontologist shall prepare a final monitoring and mitigation report to document the results of the monitoring effort.

**CUL-3:** If construction or other Project personnel discover any potential fossils during construction, regardless of the depth of work or location, work at the discovery location shall cease in a 50-foot radius of the discovery until the Qualified Paleontologist has assessed the discovery and made recommendations as to the appropriate treatment. If the find is deemed significant, it should be salvaged following the standards of the SVP (SVP, 2010) and curated with a certified repository.

# 8. References Cited

Barnes, L. 1976. Outline of eastern north Pacific fossil cetacean assemblages. Systematic Zoology 25: 321-343.

Bean, Lowell J., and Charles R. Smith.1978. Gabrielino, in *California*, edited by R.F. Heizer, pp. 538-549 Handbook of North American Indians, Vol. 8, W. C. Sturtevant, general editor, Smithsonian Institution, Washington, D.C.

Bell, M., J. Stewart, and P. Park. 2009. The world's oldest fossil Threespine Stickleback fish. Copeia 2009: 256-265.

Byrd, Brian F., and L. Mark Raab. 2007. Prehistory of the Southern Bight: Models for a New Millennium, in *California Prehistory: Colonization, Culture, and Complexity*, edited by Terry L. Jones and Kathryn A. Klar, pp. 215-227.

Clark Seif Clark, Inc. 2016. *Phase I Environmental Site Assessment, San Pedro High School.* Submitted to Los Angeles Unified School District.

Crane, J. M. 1966. Late Tertiary radiation of viperfishes (Chauliodontidae) based on a comparison of Recent and Miocene species. LACM Contributions in Science 115. 29 p.

David, L. R. Miocene fishes of southern California. Geological Society of America Special Papers Vol 43.

Dibblee, T., H. Ehrenspeck, P. Ehlig, and W. Bartlett. 1999. Geologic map of the Palos Verdes Peninsula and vicinity, Redondo Beach, Torrance, and San Pedro quadrangles, Los Angeles County, California. Dibblee Foundation Map DF-70. Scale 1: 24,000.

Dinkelspiel, Frances. 2008. *Towers of Gold*, St. Martin's Press, New York, NY.

Downs, T. 1956. A new pinniped from the Miocene of southern California: with remarks on the Otariidae. Journal of Paleontology 30: 115-131.

Erlandson, Jon M. 1994. *Early Hunter-Gatherers of the California Coast*, Plenum Press, New York, NY.

Garcia, Kyle and Fatima Clark. 2017. Archaeological Construction Monitoring and Data Recovery Excavations at the Gaffey Pool and Bathhouse Project; Community of San Pedro, City of Los Angeles, California. Report on file at ESA.

Group Delta Consultants, Inc. 2016. *Comprehensive Geotechnical Report, Campus Modernization and Retrofit, San Pedro High School, 1001 West 15th Street, San Pedro, California.* Report prepared for Los Angeles Unified School District.

Gumprecht, Blake.2001. *Los Angeles River: Its Life, and Possible Rebirth,* The Johns Hopkins University Press, Baltimore, 1999, Reprinted 2001.

Hof, C. and F. Schram. 1998. Stomatopods (Crustacea: Malacostraca) from the Miocene of California. Journal of Paleontology 72: 317-331.

Johnson, John R. and David D. Earle. 1990. Tataviam Geography and Ethnohistory. *Journal of California and Great Basin Anthropology* 12(2): 191-214.

Kroeber, Alfred L.. 1925. *Handbook of Indians of California*. Dover Publications, Inc., New York, NY.

McCawley, William. 1996. *The First Angelinos: The Gabrielino Indians of Los Angeles*, Malki Museum Press, Banning, CA.

McLeod, Samuel A. 2017. Paleontological Records Check for the proposed San Pedro High School Comprehensive Modernization Project, in the community of San Pedro, Los Angeles County. Results on file at ESA.

McWilliams, Carey. 1946. *Southern California: An Island on the Land*, Gibbs Smith, Layton, UT.

Meyer, Larry.1981. *Los Angeles, 1781-1981*: *A special bicentennial issue of California history, Spring 1981*, California Historical Society, Los Angeles, CA.

Milliken, Randall, Laurence H. Shoup, and Beverly R. Ortiz. 2009. *Ohlone/Costanoan Indians of the San Francisco Peninsula and their Neighbors, Yesterday and Today*, prepared by Archaeological and Historical Consultants, Oakland, California, prepared for National Park Service Golden Gate National Recreation Area, San Francisco, California, June 2009.

Norris, R. M., and R. W. Webb. 1990. Geology of California, second edition: John Wiley & Sons, New York.

Pitt, Leonard. 1994. *The Decline of the Californios: A Social History of the Spanish-speaking Californians, 1846-1890*, University of California Press, Berkeley.

Quinn, Steven. 2017. Sacred Lands File (SLF) search results for San Pedro High School Comprehensive Modernization Project, Los Angeles County. SLF search request submitted to the NAHC on 11/27/2017. Results received on 11/29/17.

Saucedo, G. J., H. G. Greene, M. P. Kennedy, and S. P. Bezore. 2016. Geologic Map of the Long Beach 30' x 60' Quadrangle, version 2.0. California. California Geological Survey. Scale 1: 100,000.

Saul, L. R. and C. J. Stadum. 2005. Fossil argonauts (Mollusca: Cephalopoda: Octopodida) from late Miocene siltstones of the Los Angeles Basin, California. Journal of Paleontology 79: 520-531.

Sorlein, C. C., L. Seeber, K. G. Broderick, B. P. Luyendyk, M. A. Fisher, R. W. Sliter, and W. R. Normark. 2013. The Palos Verdes anticlinorium along the Los Angeles, California coast: implications for underlying thrust faulting. Geochemistry, Geophysics, Geosystems 14: 1866-1890.

Starr, Kevin. 2007. *California: A History*, Modern Library, New York, NY.

State Lands Commission (SLC). 1982. Grants of Land in California Made by Spanish or Mexican Authorities, www.slc.ca.gov/reports/grants_of_land/part_1.pdf, accessed February 8, 2012, 1982.

SVP (Society of Vertebrate Paleontology). 1995. Assessment and mitigation of adverse impacts to nonrenewable paleontologic resources: standard guidelines. Society of Vertebrate Paleontology News Bulletin 163:22-27.

SVP (Society of Vertebrate Paleontology). 2010. Standard procedures for the assessment and mitigation of adverse impacts to paleontological resources. http://vertpaleo.org/Membership/Member-Ethics/SVP_Impact_Mitigation_Guidelines.aspx, 2010, accessed January 3, 2017.

Wallace, William J. 1955. Suggested Chronology for Southern California Coastal Archaeology. *Southwestern Journal of Anthropology* 11(3): 214-230.

Warren, Claude. 1968. Cultural Tradition and Ecological Adaptation on the Southern California Coast, In *Archaic Prehistory in the Western United States*, edited by C. Irwin-Williams, pp. 1-14, Eastern New Mexico University Contributions in Anthropology, 1(3).

Woodring, W. P., M. N. Bramlette, and W. S. W. Kew. 1946. Geology and paleontology of Palos Verdes Hills, California. U.S. Geological Survey Professional Paper 207, 145 p.Worley Parsons, 2016. *Phase I Environmental Site Assessment for the John Burroughs Middle School.* Prepared May 2016.

# Appendix A
# **Personnel**



# Monica Strauss, RPA

## Director, Southern California Cultural Resources Group

EDUCATION

M.A., Archaeology, California State University, Northridge

B.A., Anthropology, California State University, Northridge

AA, Humanities, Los Angeles Pierce College

20 YEARS EXPERIENCE

SPECIALIZED EXPERIENCE

Treatment of Historic and Prehistoric Human Remains

Archaeological Monitoring

Complex Shell Midden Sites

Groundstone Analysis

PROFESSIONAL AFFILIATIONS

Register of Professional Archaeologists (RPA), #12805

Society for California Archaeology (SCA)

Society for American Archaeology (SAA)

QUALIFICATIONS

Exceeds Secretary of Interior Standards

CA State BLM Permitted

Monica has successfully completed dozens of cultural resources projects throughout California and the greater southwest, where she assists clients in navigating cultural resources compliance issues in the context of CEQA, NEPA, and Section 106. Monica has extensive experience with archaeological resources, historic buildings and infrastructure, landscapes, and Tribal resources, including Traditional Cultural Properties. Monica manages a staff of cultural resources specialists throughout the region who conduct Phase 1 archaeological/paleontological and historic architectural surveys, construction monitoring, Native American consultation, archaeological testing and treatment, historic resource significance evaluations, and large-scale data recovery programs. She maintains excellent relationships with agency staff and Tribal representatives. Additionally, Monica manages a general compliance monitoring team who support clients and agencies in ensuring the daily in-field compliance of overall project mitigation measures.

## Relevant Experience

**Topock Compressor Station Remediation CEQA Services. Mohave County, AZ and San Bernardino County, CA.** *Cultural Resources Project Director*. Monica is overseeing the preparation of cultural resources EIR sections and is providing project support to the California Department of Toxic Substances Control (DTSC), including facilitating Native American involvement. DTSC provides oversight of the site investigation and cleanup activities for the Pacific Gas and Electric Company (PG&E) Topock Gas Compressor Station, located in San Bernardino County, 15 miles southeast of Needles, California. Groundwater samples taken under and near the Station were found to be contaminated with hexavalent chromium and other chemicals as result of past disposal activities. Soils contamination is also present at the site, requiring investigation and cleanup. These activities are highly scrutinized by the regional Native American Tribes because the area has important cultural and religious significance. ESA is currently preparing an EIR for soil investigations and will be conducting CEQA evaluations that tier off of the Program EIR for the Groundwater Remedy. Additional project-specific EIRs may be required for the final remedy, which is currently undergoing engineering design. ESA will provide these services as well as lead the Native American and public participation efforts.

**Los Angeles Department of Water and Power, Path 46 Clearance Surveys, San Bernardino, CA.** *Field Director.* ESA has been tasked by Los Angeles Department of Water and Power (LADWP) to conduct required surveys for the Path 46 Transmission Line Clearances Project. The project's objective is to restore required code clearances to the transmission conductors, which will be accomplished by grading the ground surface underneath the transmission lines to achieve required height consistency. The work is being conducted in compliance with BLM guidelines and federal laws and statutes. Biological, archaeological, and paleontological resource surveys are currently being conducted for the 77

proposed grading areas, staging areas, and roads. Reports will be written documenting the results of the surveys and providing recommendations on the areas for access, staging areas, and soil distribution that would have the least amount of impacts on natural resources. Monica is providing support to LADWP in their coordination with the BLM, including providing oversight of map preparation, field surveys, and preparation of pre-field research designs and post-field technical reports.

**Santa Clarita Valley Sanitation District, Facilities Plan Update EIR, Los Angeles County, CA.** *Cultural Resources Senior Reviewer.* Monica is currently serving as senior reviewer for the Phase I cultural resources study for the project. The study identified 23 cultural resources within or adjacent to the project, including the historical San Fernando Road. The resources were documented and evaluated for their eligibility to the California Register in a technical report and the results were incorporated into the EIR. The project includes installation of an approximately 35-mile recycled water pipeline from the Santa Clarita Valley to east Los Angeles.

**Ballona Wetlands Restoration EIS/EIR, Los Angeles County, CA.** *Cultural Resources Project Director.* As part of the development of the restoration plan for the Ballona Wetlands, the ESA project team characterized existing conditions that included water and sediment sampling and analysis. The water and sediment quality sampling was performed to develop and evaluate potential restoration alternatives, and to develop a conceptual plan. The ESA project team compiled existing data on and conducted additional sampling for water and sediment to assess potential effects on the proposed wetland restoration habitat from the use of urban runoff and tidal in-flow from Ballona Creek. These data were used to complete a baseline report and restoration alternatives assessment. Monica is assisting the CSCC in fulfilling Army Corps of Engineers requirements under Section 106 of the National Historic Preservation Act. In addition, she is coordinating with Tribal members and is overseeing a team of resource specialists who are compiling cultural resources technical in preparation of the EIR's Cultural Resources section.

**Bureau of Land Management, Soda Mountain Solar Project, San Bernardino County, CA.** *Cultural Resources Director*. ESA prepared a joint EIS/EIR for a 358-megawatt (MW) photovoltaic (PV) solar power plant and related infrastructure on approximately 4,397 acres of public land administered by the BLM near the town of Baker and the Mojave National Preserve. The project includes a substation, switchyard, operations and maintenance buildings, and interconnection to a Los Angeles Department of Water and Power 500 kV transmission line. If BLM approves the requested ROW grant, it will be necessary for the BLM to amend the California Desert Conservation Area Plan to identify the ROW area as appropriate for the proposed solar energy development use. ESA also provided support to BLM related to cultural resources and Section 106 of the NHPA. Monica provided technical and compliance oversight for third-party review of cultural resources studies and for the cultural resources section of the joint EIS/EIR.

**Los Angeles Department of Water and Power Moapa Road Repair Cultural and Biological Resources Assessment, Clark County, NV.** *Project Director.* The Los Angeles Department of Water and Power (LADWP) is seeking to conduct roadway

repairs following flash flooding to several locations of LADWP transmission line access roads on Bureau of Land Management (BLM) lands. ESA conducted cultural and biological resources assessments to identify sensitive resources within the project area. Monica provided general oversight of the project and led the coordination with the BLM Las Vegas Field Office.

**Santa Susana Field Laboratory, Ventura County, CA.** *Cultural Resources Project Director.* The Santa Susana Field Laboratory is a former rocket engine test, nuclear, and liquid metals research facility located on a 2,849- acre portion of the Simi Hills in Simi Valley, California. The uses of hazardous substances such as trichloroethylene and other solvents, heavy metals, and radioactive material at the field laboratory have resulted in soil and/or groundwater contamination. The field laboratory is currently the focus of a comprehensive environmental investigation and cleanup program conducted by Boeing, the U.S. Department of Energy (DOE), and the National Aeronautics and Space Administration (NASA) and overseen by the Department of Toxic Substances Control (DTSC). ESA is preparing a Program EIR that will evaluate soil and groundwater remediation activities. Because there are multiple responsible parties with separate cleanup actions, the Program EIR will provide a framework for tiered environmental documents to be prepared to address the development and refinement of remediation approaches and actions. Monica is overseeing a team of specialists who are conducting a geoarcheological and archaeological district studies for use in addressing impacts to archaeological resources in the EIR. Monica provides strategic guidance to DTSC on cultural resources-related issues, including Tribal outreach, approach to the Traditional Cultural Property, resource evaluations, and treatment of cultural resources on a project and program level.

**Los Angeles Department of Water and Power Lone Pine Landfill Paleontological Resources Recovery, Inyo County, CA.** *Cultural Resources Project Director.* At the request of LADWP, ESA responded to a discovery of large mammal bone at the Lone Pine Landfill in an area where borrow materials were being excavated. ESA conducted geologic map research and recovered what was identified as a mammoth tusk. The tusk was stabilized, prepared for curation, and transported to a storage facility. Monica provided senior oversight of the paleontological resources recovery team and conducted paleontological resources sensitivity training and guidance to landfill staff in the event additional material are encountered.

**Desert Sunlight Solar Farm, Riverside County, CA.** *Third-Party Compliance Monitoring Manager.* Monica provided oversight to compliance monitors who conducted daily monitoring of site activities, assisted contractors in avoiding non-compliance issues, and prepared weekly reports, and she coordinated with First Solar and the BLM on compliance issues. ESA also assists with evaluation and approvals of project Variance Requests.



# Michael R. Bever, PhD, RPA

## Senior Cultural Resources Specialist

**EDUCATION**

Ph.D., Anthropology, Southern Methodist University, Dallas

M.A., Anthropology, Southern Methodist University, Dallas

B.A., Anthropology, with honors, History minor, University of California, Davis

**23 YEARS EXPERIENCE**

**PROFESSIONAL CERTIFICATIONS**

Register of Professional Archaeologists (RPA), #16583

Secretary of the Interior and Caltrans Qualified as Principal Investigator

Certified in CA and NV as Principal under BLM Cultural Resources Use Permit

Riverside County Certification List for Archaeology

40-Hour HAZWOPER Certification

**PROFESSIONAL AFFILIATIONS**

Society for American Archaeology

Society for California Archaeology

Dr. Michael Bever has over 20 years of experience in archaeology and cultural resources management. He has worked throughout the western United States, with a focus in California. He has experience and specialized training in project management, business development, and cultural resources practice oversight, and has directed projects involving a wide breadth of resource types in compliance with federal and state laws and regulations. Dr. Bever's experience includes all manner of cultural resources studies and documentation for projects both large and small, and he has presented various cultural resources management training courses in both professional and academic settings.

In addition to work in cultural resources management, Dr. Bever has held tenure-track professorships at the University of Texas at Austin and the University of Nevada, Reno. A published expert in the earliest prehistory of North America, he is well-versed in archaeological research design and all aspects of archaeological field and laboratory research.

## Relevant Experience

**SDUSD On-call Consulting Services for Multiple Capital Improvement Projects, San Diego, CA.** *Cultural Resources Manager.* ESA holds a current on-call contract with the San Diego Unified School District (SDUSD) for CEQA and environmental services related to capital improvement projects at their various facility locations. SDUSD is using bond funds to repair, renovate and revitalize District schools. These projects include safety and security upgrades, Americans with Disabilities Act upgrades, new/renovated facilities athletic facilities improvements, and whole site modernizations. Dr. Bever leads the cultural resources group in preparing archaeological, paleontological and historical (built) resources studies in support of these projects.

**SDUSD Joint Occupancy Project at Scripps Ranch, San Diego Unified School District, San Diego, CA.** *Cultural Resources Manager.* ESA is preparing a highly controversial EIR for the San Diego Unified School District (District). The District proposes demolition of existing structures on the approximately 6.7-acre project site, and the construction of a mixed-use development, including residential units and a Student Makerspace and Community Center building. Dr. Bever directed a Phase I cultural resources inventory and preparation of the cultural resources section of an EIR. No resources were identified, given that the project occurs atop a massive deposit of artificial fill.

**Los Angeles County Sanitation District, Joint Water Pollution Control Plant Biogas Conditioning System Project, Carson, CA.** *Cultural Resources Manager.* ESA prepared the Mitigated Negative Declaration (MND) for the Joint Water Pollution Control Plant (JWPCP) Biogas Conditioning System project. The MND

**SPECIALIZED EXPERIENCE AND TRAINING**

Advanced Project Management, ESA

Project Management and Advanced Project Management, Project Management Institute

Best Practices in Historic Preservation, City of San Diego and California Office of Historic Preservation

Paleontological Monitor Training, San Jose State University

Numerous CEQA, NEPA and Section 106 training programs

Effective Presentation Skills: The Shortlist Interview Toolbox, The Professional Voice

evaluated the installation of a biogas conditioning system and associated pipelines (biogas supply pipeline, tail gas return pipeline, drain water pipeline) within the JWPCP and across a public roadway. Dr. Bever directed the cultural resources studies for this fast-paced MND preparation, which involved a Phase 1 archaeological study with a site survey, and participation in Native American consultation with the District.

**Los Cerritos Wetlands and Oil Production Project EIR, Long Beach, CA.** *Cultural Resources Specialist***.** ESA is has prepared an EIR for the Los Cerritos Wetlands and Oil Production project in the City of Long Beach. The project includes a comprehensive wetlands restoration that will restore a privately owned oil field in the City of Long Beach through the creation of a wetlands mitigation bank. The project will occur on four properties and will relocate and modernize existing oil production facilities. In addition, the project will include the construction of facilities to support oil production and will include a visitor's center and pedestrian paths on the newly restored wetlands. Dr. Bever conducted peer review of archaeological, historical, and paleontological resources technical reports, provided assistance with AB 52 consultation, and prepared the cultural resources section of the EIR.

**Cultural Resources Mitigation Compliance for High School No. 12, Grossmont Union High School District, Alpine, CA.** *Project Director*. Dr. Bever oversaw and directed various studies for a new high school that will be constructed in the City of Alpine. The project involved coordination with multiple specialists, including prehistoric and historical archaeologists, and architectural historians, to develop plans to evaluate and treat multiple cultural resources. To date, the project has involved test excavation and evaluation of several prehistoric archaeological sites, evaluation of six standing structures, data recovery excavation, HAER documentation, and monitoring. Documents prepared include testing and evaluation reports, a historic properties treatment plan, an MOA, and a draft data recovery report. Future work will include extensive monitoring of grading for construction of the school. Because of the sensitive nature of the prehistoric cultural resources, coordination with local Native American groups, both in project planning and in field monitoring, as well as with the District and USACE has been essential.

**On-Call Cultural Resources Services, Southern California Edison, Various Locations, CA.** *Project Director*. Dr. Bever directed multiple small and large projects involving cultural resources inventory for installation, maintenance, replacement and demolition of transmission lines and associated facilities. Tasks included records searches, Native American and federal agency coordination, survey, evaluation, and report preparation. Documents were prepared for SCE under both CEQA and Section 106 of the NHPA.

**On-Call Cultural Resources Services, Southern California Gas Company, Various Locations, CA.** *Project Director*. Dr. Bever served as director for cultural resources services for the Southern California Gas Company, including records searches, feasibility studies, field survey, excavation, and construction monitoring. Recent projects include archaeological testing and monitoring of an historic period site near the historic San Gabriel Mission in San Gabriel, California, as part of a gas pipeline replacement project. Also provided in-house cultural resources adjunct staff support.

**Los Angeles to Anaheim High Speed Train, California High-Speed Rail Authority/Federal Railroad Authority, Los Angeles and Orange Counties, CA.** *Archaeological Resources Manager*. Dr. Bever prepared technical report and EIS documents summarizing survey, archival research and sensitivity studies for prehistoric and historical archaeological resources associated with a thirty mile proposed rail line through the Los Angeles Basin. Documents were prepared for California High-Speed Rail Authority and FRA.

**Cogswell Reservoir Sediment Removal Project, Los Angeles National Forest, Los Angeles County, CA.** *Cultural Resources Manager.* ESA retained by the County of Los Angeles Department of Public Works, Water Resources Division to prepare a Cultural Resources Assessment in support of the Cogswell Reservoir Sediment Removal Project. The purpose of the project is to remove debris and sediment from Cogswell Reservoir associated with the August 26, 2009 Station Fire in the Angeles National Forest. Dr. Bever managed the cultural resources study, which involved coordination with the United States Forest Service, preparation of a work plan and Archaeological Resources Protection Act permit, field survey, and preparation of a Cultural Resources Assessment Report meeting both CEQA and Section 106 of the National Historic Preservation Act requirements.

**Ballona Wetlands Restoration Project, California State Coastal Conservancy, Los Angeles, CA.** *Cultural Resources Manager*. The historical Ballona Wetlands, which is now reduced to 577 acres (and only 12 percent of that is tidally influenced), once occupied a 2,000-acre expanse of critical coastal habitat and included some of the most diverse wetland habitat types in the Los Angeles Basin due to the presence of both freshwater and saltwater environments. The Ballona Wetlands Restoration EIR/EIS evaluates four alternatives that include the following key elements: ecosystem restoration, flood and stormwater management (by allowing a naturalized, rather than concrete-lined, Ballona Creek), public access improvements, infrastructure and utility modifications (including abandonment and relocation of Southern California Gas Company monitoring wells and pipelines), a full-scale implementation and restoration program, a state-of-the-art monitoring and adaptive management program, and ongoing operations and maintenance activities. Over more than seven years, Dr. Bever has directed or overseen aspects of the cultural resources studies for the Ballona Wetlands Restoration Project. The cultural resources component of the project has involved field survey and excavation, archival research, geoarchaeological assessment, SHPO and USACE outreach, and reporting to document cultural resources in the area. The area is considered exceptionally sensitive to local Native American groups and extensive consultation and coordination with local tribes and the California Department of Parks and Recreation has been essential. Documents, including cultural resources technical studies and an EIR/EIS, were prepared for the California Coastal Conservancy and the USACE.



# Alyssa Bell, PhD

## Paleontologist

**EDUCATION**

Ph.D., Vertebrate Paleontology; University of Southern California

M.S., Environmental Microbiology; University of Tennessee

B.A. with honors, Ecology and Systematics; William Jewell College & Homerton College, Cambridge University

**10 YEARS EXPERIENCE**

Dr. Alyssa Bell has supervised and peformed field work, authored project reports, and provided scientific and compliance direction and quality control for paleontological projects throughout Southern California. Dr. Bell has accumulated a wealth of field experience, working with crews from a variety of institutions on field sites in California, Arizona, New Mexico, South Dakota, and Utah, and has led her own expeditions in Montana. She has performed all manner of investigations from surveys and assessments to monitoring and fossil idenfitication over the last 15 years as a part of her academic pursuits and professional consultation, with the last three years being exclusively professional endeavors.

In addition to consulting, Dr. Bell serves as a postdoctoral fellow at the Dinosaur Institute of the Natural History Museum of Los Angeles County (LACM). There she is involved in pursuing her own research into fossil birds as well as working with the Institute's field projects and museum-wide education and outreach initiatives. She has also published peer-reviewed articles and book chapters and given numerous presentations at scientific conferences on both her paleontological and microbiological research.

## Relevant Experience

**ICHA Area 10 (PA 10-2 & 10-4) Archaeological and Paleontological Monitoring, Irvine, CA.** *Principal Investigator & Project Paleontologist.* Dr. Bell managed the curatorial process for fossils collected during monitoring of pre-construction activities at the University of California, Irvine, and authored the final report.

**Suncrest Reactive Power Support Project, San Diego County, CA.** *Principal Investigator.* Dr. Bell authored the paleontological assessment for the Proponent's Environmental Assessment (PEA) in support for a dynamic reactive power support facility and associated 230-kilovolt (kV) transmission line near Alpine, California. The application for Certificate of Public Convenience and Necessary was filed in summer 2015 and the PEA was deemed complete in December 2015.

**Washington National Archaeological and Paleontological Monitoring (Access Culver City), Culver City, CA.** *Principal Investigator & Project Paleontologist.* Dr. Bell managed the curatorial process for fossils collected during monitoring of pre-construction activities at the Washington national site in Culver City, CA and authored the final report.

**OTO Hotels Santa Monica Archaeological and Paleontological Service, Santa Monica, CA.** *Principal Investigator.* Dr. Bell supervised paleontological monitoring and mitigation services during construction excavations and grading. Services included implementation of a paleontological mitigation monitoring program and reporting.

**Sacred Heart Specific Plan Environmental Impact Report (EIR), La Canada Flintridge, CA.** *Principal Investigator.* Dr. Bell prepared paleontological studies and

developed monitoring & mitigation recommendations for the Sacred Heart development project.

**Sixth & Bixel Paleontological Monitoring Services Project, Los Angeles, CA.** *Principal Investigator & Project Paleontologist.* Dr. Bell supervised paleontological monitoring of preconstruction activities in support of a development project encompassing two parcels in downtown Los Angeles. During these activities, monitors identified and recovered numerous significant vertebrate fossils. Dr. Bell supervised the excavation of fossilized whale remains discovered on-site, and oversaw the collection and curation of all fossil specimens.

**Natural and Cultural Support for the Gordon Mull Subdivision EIR, Glendora, CA.** *Principal Investigator.* Dr. Bell collected the necessary data to prepare the technical sections and mitigation recommendations to support an EIR prepared by another firm to address the Gordon Mull Subdivision in the city of Glendora. The project is proposes to redevelop a 71-acre, 19-lot located in the San Gabriel Foothills.

**Lake Elsinore Lakeshore Town Center Permitting, Riverside County, CA.** *Principal Investigator.* Dr. Bell provided paleontological studies and developed monitoring and mitigation recommendations for the Lake Elsinore Town Center project in Riverside County.

**San Pedro Plaza Park - Phase III Archaeological Monitor, Los Angeles, CA.** *Principal Investigator.* Dr. Bell identified fossils during the mitigation measurement-required archaeological monitoring of earthmoving activities in San Pedro Park Plaza. She is also responsible for curation of the fossil material and authorship of the paleontological section of the final report.

**City of Hope Specific Plan and EIR, Duarte, CA.** *Principal Investigator.* Dr. Bell provided paleontological resource studies for the City of Hope Specific Plan Project.

**Blythe Solar Power Project, Units 1 & 2, Riverside County, CA.** *Project Paleontologist.* Dr. Bell supervised paleontological monitoring of preconstruction activities for a solar photo-voltaic cell power-generating facility outside the city of Blythe. As a part of her role, she provided oversight and management of paleontological monitors and development of the final monitoring report.

**Industrial Project Environmental Impact Report, Colton, CA.** *Principal Investigator.* Dr. Bell provided a paleontological resources study for a six-acre industrial project site at the southwest corner of Agua Mansa Road and Rancho Avenue in the city of Colton.

**Mojave Solar Project Paleontological Reporting, San Bernardino County, CA.** *Principal Investigator.* Dr. Bell managed curation of fossil materials and authored the final report of paleontological monitoring services provided for construction activities in support of a solar field development project in San Bernardino County.

**El Camino Real Bridge Replacement Environmental Services, Atascadero, CA.** *Principal Investigator.* Dr. Bell provided environmental services, including preparation of all California Environmental Quality Act (CEQA)/National Environmental Policy Act (NEPA) documentation, technical studies, and permitting, for the replacement of the El Camino Real Bridge over Santa Margarita Creek in Atascadero.

**Recycled Water Transmission Water Main Paleo Monitoring, Fresno, CA.** *Principal Investigator.* Dr. Bell developed a monitoring and mitigation plan for the city of Fresno recycled water main construction project.

**Shafter Wasco Irrigation District Natural and Cultural Resource Evaluations and Air Quality, Kern County CA.** *Principal Investigator.* Dr. Bell provided paleontological studies and developed recommendations for the monitoring and mitigation of paleontological resources for the project.

**Valentine EIR, Kern County, CA.** *Principal Investigator.* Dr. Bell provided paleontological resources support for a 2,000-acre solar PV project in the Mojave Desert. Deliverables included comprehensive technical reports, GIS impact analysis, strategic and permitting support, and a paleontological field survey in the preparation of an EIR and other permitting requirements.

**Valentine Solar EIR 115MW Supplemental Reports, Kern County, CA.** *Principal Investigator.* Dr. Bell provided paleontological studies in support of changes to the previously established Valentine Solar project.

**Valentine Solar Biological and Paleontological Study Updates, Rosamond, Kern County, CA.** *Principal Investigator & Project Paleontologist.* Dr. Bell provided paleontological studies, carried out a paleontological survey, and developed monitoring and mitigation guidelines for the Valentine Solar project.

## Field Research

2006-Present. The Dinosaur Institute, LACM. Coordinator and Team Leader on expeditions in Montana (Niobrara and Pierre Shale Formations) and Arizona (Chinle Formation). Field assistant on expeditions to Montana (Hell Creek Formation), Utah (Morrison Formation), Arizona (Chinle Formation), New Mexico (Kirtland Formation), and California (Aztec Sandstone). During this period approximately four-six weeks are spent in the field in various locations every year.

2015. Principal Investigator, Field Manager. SWCA Environmental Consultants. Supervision of all paleontological field work, including excavation of a partial whale fossil from a downtown Los Angeles construction site and numerous monitoring projects.

2014. University of Southern California. Field Assistant on an expedition to South Africa (Pre-Cambrian).

2005. Cambridge University. Field Assistant on an expedition in Badlands National Park, South Dakota (White River Group).

2002-2004. Montana State University Northern. Field Assistant on excavations in Montana (Judith River Formation).

## Publications

Bell, A. and L. Chiappe, 2015. Identification of a new Hesperornithiform from the Cretaceous Niobrara Chalk and implications for ecologic diversity among early diving birds. PLOS One 10: e0141690.

Bell, A. and L. Chiappe, 2015. A species-level phylogeny of the Cretaceous Hesperornithiformes (Aves: Ornithuromorpha): implications for body size

evolution among the earliest diving birds. Journal of Systematic Palaeontology 14: 239-251.

Liu, D., L. Chiappe, Y. Zhang, A. Bell, Q. Meng, Q. Ji, and X. Wang, 2014. An advanced, new long-legged bird from the Early Cretaceous of the Jehol Group (northeastern China): insights into the temporal divergence of modern birds. Zootaxa 3884: 253-266.

Bell, A. and L. Chiappe, 2011. Statistical approach for inferring the ecology of Mesozoic birds. Journal of Systematic Paleontology 9: 119-133.

Bell, A. and M.J. Everhart, 2011. Remains of small avians from a Late Cretaceous (Cenomanian) microsite in north central Kansas. Transactions of the Kansas Academy of Science 114: 115-123

O'Connor, J., L. Chiappe, and A. Bell, 2011. Pre-modern birds: avian divergences in the Mesozoic in Kaiser, G. and G. Dyke, Living Dinosaurs. Oxford: Wiley-Blackwell Publishing. pp. 39-114.

Bell, A., L.M. Chiappe, G.M. Ericksson, S. Suzuki, M. Watabe, R. Barsbold, and K. Tsogtbaatar, 2010. Description and ecologic analysis of Hollanda luceria, a Late Cretaceous bird from the Gobi Desert (Mongolia). Cretaceous Research 31: 16-26.

Bell, A., L. McKay, A. Layton, and D. Williams, 2009. Factors influencing the persistence of fecal Bacteroides in stream water. Journal of Environmental Quality 38: 1224-1232.

Bell, A. and M.J. Everhart, 2009. A new specimen of Parahesperornis (Aves: Hesperornithiformes) from the Smoky Hill Chalk (Early Campanian) of western Kansas. Transactions of the Kansas Academy of Science 112: 7-14.

Everhart, M.J. and A. Bell, 2009. A hesperornithiform limb bone from the basal Greenhorn Formation (Late Cretaceous; Middle Cenomanian) of north central Kansas. Journal of Vertebrate Paleontology 29: 952-956.

## Conference Presentations

Bell, A., Y.-H.Wu, L. M. Chiappe, 2016. Use of morphometric data in taxonomy and functional morphology: a case study of modern and Cretaceous diving birds. 35th International Geological Congress. Cape Town, South Africa.

Bell, A., 2011. Inferring the ecology of extinct European birds from the Mesozoic and Tertiary. European Association of Vertebrate Paleontology. Heraklion, Crete.

Bell, A. and L.M. Chiappe, 2010. Identifying trends in avian ecomorphology. International Ornithological Congress. Sao Paulo, Brazil.

Bell, A., L.M. Chiappe, and J. O'Connor, 2009. Ecological diversity of Mesozoic birds: morphometric analysis with a phylogenetic perspective. Society of Vertebrate Paleontology. Bristol, United Kingdom.

Bell, A., Z.J. Tseng, and L. Chiappe, 2008. Diving mechanics of the extinct Hesperornithiformes: comparison to modern diving birds. Society of Vertebrate Paleontology. Cleveland, Ohio.

Bell, A., L. Chiappe, S. Susuki, and M. Watanabe, 2008. Phylogenetic and morphometric analysis of a new ornithuromorph from the Barun Goyot Formation, Southern Mongolia. Society of Avian Paleontology and Evolution. Sydney, Australia.

Bell, A., 2008. Diving mechanics of the extinct Hesperornithiformes: comparison to modern diving birds. CalPaleo. Sacramento, California.

Bell, A., L. McKay, A. Layton, D. Williams, 2007. Persistence of Bacteroides in surface water. American Society for Microbiology. Chicago, Illinois.

Bell, A., L. McKay, and A. Layton, 2006. Survival and transport of Bacteroides in streams. Geological Society of America, Southeastern Section. Knoxville, Tennessee.

Bell, A., L. McKay, and A. Layton, 2006. Survival and transport of Bacteroides in streams. American Water Resources Association, Tennessee Division. Nashville, Tennessee.

Bell, A., 2004. Avian phylogenetics: a combined molecular and morphological analysis. David Nelson Duke Colloquium. Kansas City, Missouri.



# Fatima Clark

## Archaeologist

EDUCATION

B.A., Anthropology, California State University, Fullerton

8 YEARS EXPERIENCE

PROFESSIONAL AFFILIATIONS

Society for California Archaeology

SPECIALIZED TRAINING

Workshop: The Art and Science of Flintknapping, California Desert Studies Center, 2013

Successful CEQA, Compliance-Southern California Edison, Environmental Training, 2011

Cultural Resources Protection under CEQA and Other Legislative Mandates, UCLA Extension, 2010

PROFESSIONAL AFFILIATIONS

Society for California Archaeology

Fatima Clark has eight years of hands-on archaeological experience and is practiced in project management and client and agency coordination. Her field experience is complimented by the course study and participation in numerous archaeological excavations in California, Arizona, and Peru. Fatima has written California Environmental Quality Act (CEQA)-level technical reports, Environmental Impact Report (EIR) sections, Initial Study sections, archaeological peer reviews, archaeological monitoring reports, and reports pursuant to Caltrans requirements. She is also experienced in performing archaeological testing, site recordation, laboratory analysis, pedestrian surveys, records searches through several California Historical Resources Information Systems-Information Centers, and monitoring for a wide variety of projects, including mixed-use, residential, and energy, water, and road infrastructure projects. In addition to her archaeology background, Fatima has been cross-trained in conducting paleontological surveys and monitoring and has co-authored and managed associated reports.

## Representative Experience

**Real Estate Development.** Fatima has provided a full range of archaeological services to numerous projects throughout Southern California. Her role in these projects have consisted of conducting coordination management between construction personnel managers and archaeological monitors, writing Phase I and monitoring reports, conducting pedestrian surveys, monitoring, and performing records searches and laboratory work of recovered artifacts during monitoring and Phase II archaeological testing. Recent project experience includes the Uptown Newport Village Project in Newport Beach, the Shriners Hospital for Children in Pasadena, the San Juan Medical Office Building in San Juan Capistrano, the Isla Verde Residential Project in Moreno Valley, the Frontier Chino Project, and the 220-acre Aidlin Property Residential Project in the Stevenson Ranch community of unincorporated Los Angeles County.

**Infrastructure.** Fatima has served a number of clients and lead agencies in the provision of a variety of archaeological services, including municipalities, water agencies, Caltrans, large engineering firms, and energy providers. She served as an in-house consultant to Southern California Edison (SCE) for nearly six years, during which time she worked on a wide variety of environmental compliance projects. Fatima also served as the Project Manager for the I-10 Freeway/Pepper Avenue Interchange Project in Colton, and is currently the La Costa Chevron Drainage Improvements Project in Encinitas. Other projects include the Badlands Landfill stockpile project for Riverside County, the Palos Verdes pipeline project and Crenshaw Reservoir project for the California Water Service Company, and the San Clemente Recycled Water project.

**Paleontology.** Fatima's experience in paleontological resources has included projects throughout Southern California. Because of her cross-training, she is often called to perform monitoring and surveys on a variety of project types. Her monitoring projects are diverse in nature and include everything from residential to petroleum-related projects. Fatima's paleontology projects include the 7.5 acre Highgrove community library site in Riverside County and the proposed San Clemente Recycled Water Project study areas associated with the installation, transmission, distribution of pipelines, and expansion of facilities at water treatment plants.

**Construction Monitoring.** Fatima's monitoring projects are diverse in nature and encompass everything from residential to petroleum-related projects. Her archaeological monitoring includes a number of projects for the City of San Juan Capistrano, Burbank Water & Power, as well as work at the Orange County Great Park (on the former El Toro MCAS), with the city of Mission Viejo, for the Cascade Solar Project, the Willow Heights project in Diamond Bar, and various Lennar Homes and John Laing Homes Housing development projects.

Her paleontological monitoring projects include monitoring and fossil salvage at a proposed school site off of Mulholland that dated back to the Miocene era. She also performed construction monitoring for paleontological resources during the grading of three large basins for the installation of storm drains at the Lytle Creek North Water Quality Basin Relocation project site. Additional experience includes monitoring at the Brio Residential Development in La Habra, monitoring for resources in contaminated soils at the Orange County Great Park (Heritage Fields) project site (formerly the El Toro Marine Corps Air Station), and at the Arroyo Grande Oil Field Project in San Luis Obispo, where she also performed sediment sampling.

# Appendix B
## Sacred Lands File Search

**NATIVE AMERICAN HERITAGE COMMISSION**
**Environmental and Cultural Department**
**1550 Harbor Blvd., Suite 100**
**West Sacramento, CA 95691**
**(916) 373-3710**

November 29, 2017

Fatima Clark
ESA

Sent by E-mail: fclark@esassoc.com

RE: San Pedro High School Comprehensive Modernization Project, Los Angeles County

Dear Ms. Clark:

A records search of the Native American Heritage Commission (NAHC) *Sacred Lands File* was completed for the area of potential project effect (APE) referenced above with negative results. Please note that the absence of specific site information in the *Sacred Lands File* does not indicate the absence of Native American cultural resources in any APE.

Attached is a list of tribes culturally affiliated to the project area. I suggest you contact all of the listed Tribes. If they cannot supply information, they might recommend others with specific knowledge. The list should provide a starting place to locate areas of potential adverse impact within the APE. By contacting all those on the list, your organization will be better able to respond to claims of failure to consult. If a response has not been received within two weeks of notification, the NAHC requests that you follow-up with a telephone call to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any of these individuals or groups, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact via email: steven.quinn@nahc.ca.gov.

Sincerely,

Steven Quinn

Steven Quinn
Staff Services Analyst

# Appendix E
## Noise Technical Report

ESA

# Los Angeles Unified School District
# San Pedro High School
# Comprehensive Modernization Project

## Noise and Vibration Technical Report

Prepared for
Los Angeles Unified School District
Office of Environmental Health and Safety
3333 South Beaudry Avenue, 21st Floor
Los Angeles, CA 90017

May 2018

ESA

# Los Angeles Unified School District
# San Pedro High School
# Comprehensive Modernization Project

## Noise and Vibration Technical Report

Prepared for
Los Angeles Unified School District
Office of Environmental Health and Safety
3333 South Beaudry Avenue, 21st Floor
Los Angeles, CA 90017

May 2018

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Los Angeles, CA 90017
213.599.4300
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ESA

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| Irvine | Portland | Sunrise |
| Los Angeles | Sacramento | Tampa |
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# EXECUTIVE SUMMARY

# LAUSD San Pedro High School Comprehensive Modernization Project Noise and Vibration Technical Report

Los Angeles Unified School District (LAUSD) proposes a Comprehensive Modernization to San Pedro High School (Project) in the city of Los Angeles, California. The proposed Project would include renovations, modernizations, and new construction at San Pedro HS; including demolition of the Industrial Arts Building, the Shop Building, Food Service Unit, and Lunch Shelter, and removal of four portable (relocatable) buildings and one modular building. The Project would include construction of a new Band and Industrial Arts Building; Administration, Food Service, and Classroom Building to house general and specialty classrooms, administration, kitchen, dining, and support spaces; Central Plant; and lunch shelter, or lunch shelters. The new buildings would house approximately 12 new general and specialty classrooms, and support spaces. The Project includes modifications and/or upgrades to the Administration Building, the Old Gymnasium (this includes a voluntary seismic retrofit and a new wood floor in the main court), the Home Economics Building Classroom Building # 1, and Classroom Building # 2 (Science Building). Upon completion of Project construction, San Pedro HS would have 69 classrooms, consisting of 23 existing classrooms, 34 remodeled classrooms, and 12 new classrooms.

San Pedro High School is located on a 22.9-acre site in the community of San Pedro, approximately 22 miles southwest from downtown Los Angeles. Specifically, the campus is located at 1001 West 15$^{th}$ Street within the southwest portion of the City of Los Angeles. The campus comprises two city blocks and is bound by West 15$^{th}$ Street to the north, Dana Middle School immediately to the east, West 17$^{th}$ Street to the south, and South Leland Street to the west. The Assessor's Parcel Number (APN) for the Project site is 7458-024-918. The Campus is surrounded by predominately residential uses.

The purpose of this Noise and Vibration Technical Report is to assess and discuss the impacts of potential noise and vibration impacts that may occur with the implementation of the proposed Project.

The analysis describes the existing noise environment in the Project area, estimates future noise and vibration levels at surrounding land uses resulting from construction and operation of the Project, and identifies the potential for significant impacts. An evaluation of the Project's contribution to potential cumulative noise impacts is also provided. Noise worksheets and technical data used in this analysis are provided in the Appendices.

The report summarizes the potential for the Project to conflict with applicable noise and vibration regulations, standards, and thresholds. The findings of the analyses are as follows:

- Construction noise and vibration levels associated with the Project would not exceed the significance threshold at the off-site and on-site sensitive receptors with the implementation of mitigation measures as well as complying with the Program EIR Standard Conditions. Therefore, construction noise and vibration impacts would be less than significant.
- Operation of the Project would not expose persons to, or generate noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies with the compliance of the Program EIR Standard Conditions. Therefore, operation noise impacts would be less than significant.
- As discussed above, the Project construction and operation would not result in a substantial temporary or permanent increase in ambient noise and vibration levels at offsite sensitive receptor locations. Therefore, impacts would be less than significant.

# LAUSD San Pedro High School Comprehensive Modernization Project

# Noise and Vibration Technical Report

## 1. Introduction

This Noise and Vibration Technical Report was prepared by ESA to support a Draft Environmental Impact Report (EIR) for the proposed San Pedro High School Comprehensive Modernization Project (proposed Project) located in the City of Los Angeles. San Pedro High School is located on a 22.9-acre site in the community of San Pedro, approximately 22 miles southwest from downtown Los Angeles and approximately 1.45 miles from the Pacific Ocean (**Figure 1**, *Project Vicinity*). The purpose of this report is to provide a detailed technical noise and vibration analysis of the proposed Project. ESA has conducted this noise and vibration assessment to evaluate the potential noise and vibration impacts associated with construction activities, traffic, and other aspects of the proposed Project construction and operations that have the potential to generate noise and vibration. The objectives of this Noise and Vibration Technical Report are to:

- Establish the existing noise environment at the Project site;
- Evaluate the construction and operational noise and vibration levels associated with proposed Project development and the potential for noise and vibration impacts based on applicable standards and thresholds;
- Provide, if needed, noise and vibration mitigation measures as required to meet applicable noise and vibration standards and thresholds.

### 1.1 Background

Ongoing master planning activities and facility site assessments conducted for Los Angeles Unified School District (LAUSD or District) facilities over the last several years have identified school sites throughout the District that exhibit critical physical conditions. The School Upgrade Program (SUP) implemented by LAUSD outlines a series of capital improvements intended to rehabilitate and modernize these schools so they are safe, healthy, and functional places to learn.

LAUSD prepared a Program Environmental Impact Report (SCH No. 2013111046) to evaluate the direct and indirect environmental effects of the SUP program.[1] The SUP Program EIR

[1] Los Angeles Unified School District. 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.

(Program EIR or PEIR) was certified by the LAUSD Board on November 10, 2015.[2] As provided in Section 15168 of the State California Environmental Quality Act (CEQA) Guidelines, a Program EIR may be prepared on a series of actions that can be characterized as one large project. Use of a Program EIR provides LAUSD, as lead agency, with the opportunity to consider broad policy alternatives and program-wide mitigation measures, and provides LAUSD with greater flexibility to address project-specific and cumulative environmental impacts on a comprehensive basis.[3]

Subsequent activities under the SUP are evaluated to determine whether an additional CEQA document needs to be prepared. However, if the Program EIR addresses the program's effects as specifically and comprehensively as possible, many subsequent activities could be found to be within the Program EIR scope, and additional environmental documents may not be required.[4] When a Program EIR is relied on for a subsequent activity, the lead agency must incorporate any feasible mitigation measures and alternatives developed in the Program EIR into the subsequent activities.[5] **Table 1** *Summary of LAUSD SUP PEIR Noise and Vibration Impacts*, summarizes the PEIR's conclusions regarding the noise and vibration impacts of the SUP, as well as the findings of this project-specific analysis.

**TABLE 1**
**SUMMARY OF LAUSD SUP PEIR NOISE AND VIBRATION IMPACTS**

| Environmental Threshold<br>Would The Project: | | PEIR Level of Impact Significance | Project-Specific Level of Impact Significance | Applicable Standard Conditions (SCs) of approval | Mitigation Measures |
|---|---|---|---|---|---|
| A) | Result in exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance? | Potentially Significant and Unavoidable | Less than Significant | SC-N-1<br>SC-N-2<br>SC-N-4 | No required |
| B) | Result in the generation of excessive ground-borne vibration during construction activities? | Potentially Significant and Unavoidable | Less than Significant with Mitigation Incorporated | SC-N-5<br>SC-N-6<br>SC-N-7<br>SC-N-8 | Noise-1<br>Noise-2 |
| C) | Result in substantial permanent increase in ambient noise levels from traffic? | Less than Significant | Less than Significant | SC-N-3 | Not required |
| D) | Result in substantial temporary or periodic increase in ambient noise levels in the project vicinity during construction? | Potentially Significant and Unavoidable | Less than Significant | SC-N-5<br>SC-N-9 | Not required |

2 Los Angeles Unified School District, Board of Education. Regular Board Meeting -November 10, 2015. http://laschoolboard.org/11-10-15RegBd.

3 Los Angeles Unified School District. 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015. p. 1-5.

4 14 CCR Section 15168(c).

5 14 CCR Section 15168(c)(3).

| Environmental Threshold<br><br>Would The Project: | | PEIR Level of Impact Significance | Project-Specific Level of Impact Significance | Applicable Standard Conditions (SCs) of approval | Mitigation Measures |
|---|---|---|---|---|---|
| E) | If within an airport land use plan or within two miles of a public use airport or private airstrip, expose students or staff to excessive noise levels? | Less than Significant | Less than Significant | SC-N-2 | Not required |

SOURCE: LAUSD SUP FEIR 2015; ESA 2017

According to the PEIR, projects implemented under the SUP are anticipated to have less than significant and potentially significant impacts on noise and vibration. However, the project-specific analysis provided in Section 5.0 Environmental Impacts of this report concludes that implementation of the proposed Project would have less than significant impacts on the surrounding community and the school site.

## 1.2 Existing Conditions

San Pedro High School is located on a 22.9-acre site in the community of San Pedro, approximately 22 miles southwest from downtown Los Angeles and approximately 1.45 miles from the Pacific Ocean (**Figure 1**, *Project Vicinity*). Specifically, the campus is located at 1001 West 15th Street within the southwest portion of the City of Los Angeles. The campus comprises two city blocks and is bound by West 15th Street to the north, Dana Middle School immediately to the east, West 17th Street to the south, and South Leland Street to the west (**Figure 2**, *Project Location*). The Assessor's Parcel Number (APN) for the Project site is 7458-024-918. Project implementation would not occur across the entire school campus, but on selected areas undergoing renovation.

San Pedro High School is an operational high school serving students in grades 9 through 12. The campus sits on a multi-tiered hillside overlooking the Los Angeles harbor with the highest elevation on the southwest. Specifically, the campus is located at 1001 West 15th Street within the southwest portion of the City of Los Angeles. The new Gymnasium completed in 2005, play areas and athletic fields dominate the lower level, and separate the San Pedro HS campus from adjacent Dana Middle School campus. West of the lower level is the main plateau which consists of three original permanent buildings: Administrative and Classroom Building, Home Economics Building, and Classroom Building #1. The Administrative Building has side stair access on the north side from 15th Street, and an original entry courtyard to the East. At an intermediate level facing 17th Street is Classroom Building #2 (Science Building).

West and uphill from the main Administrative Building is the upper level of the campus where the Food Service Unit and the Auditorium Building are located. There are several portable classrooms located in the northwest end and in the central part of the campus. South of the Auditorium are two permanent buildings, the Industrial Arts Building and the Shop Building. Land uses north of the campus include primarily medium density residential uses and several commercial uses. Occupancies west and south of the campus are primarily low-density residential. The property to the east of the campus is occupied by Dana Middle School, with medium density residential uses beyond.




SOURCE: Los Angeles County GIS.

San Pedro High School Comprehensive Modernization Project . 211085.31

**Figure 1**
Project Vicinity

Path: U:\GIS\GIS\Projects\211xxx\211085_31_San_Pedro_HS\03_MXDs_Projects\2017 - Technical Studies\Fig 1 - Project Vicinity - 11x8 - 12-11-17.mxd sgelsler 12/11/2017




new main entrance

SOURCE: LPA

San Pedro High School Comprehensive Modernization Project . 211085.31

**Figure 2**
Site Plan

## 1.3 Project Description

The proposed Project would include renovations, modernizations, and new construction at San Pedro HS; including demolition of the Industrial Arts Building, the Shop Building, Food Service Unit, and Lunch Shelter, and removal of four portable (relocatable) buildings and one modular building. The Project would include construction of a new Band and Industrial Arts Building; Administration, Food Service, and Classroom Building to house general and specialty classrooms, administration, kitchen, dining, and support spaces; Central Plant; and lunch shelter, or lunch shelters. The new buildings would house approximately 12 new general and specialty classrooms, and support spaces. The Project includes modifications and/or upgrades to the Administration Building, the Old Gymnasium (this includes a voluntary seismic retrofit and a new wood floor in the main court), the Home Economics Building Classroom Building # 1, and Classroom Building # 2 (Science Building). Upon completion of Project construction, San Pedro HS would have 69 classrooms, consisting of 23 existing classrooms, 34 remodeled classrooms, and 12 new classrooms.

The proposed Project would result in demolition of and/or modifications to existing buildings, potentially including historic buildings and resources. **Table 2** *Characteristics of Existing Buildings* shows details about the characteristics of the existing buildings to be demolished and/or renovated. The Project would be designed to preserve and enhance significant (primary) character-defining features associated with the campus. Additionally, the proposed Project would be designed and implemented in a manner that complies with the LAUSD Design Guidelines and Treatment Approaches for Historic Schools.[6]

**TABLE 2**
**CHARACTERISTICS OF EXISTING BUILDINGS**

| Current Building Name (Building Number and/or ID) a, b | Year Constructed c | Alterations/ Repairs | Historic Status | Project Activity | Removal (sf) | New Construction (sf) | Remodel (sf) |
|---|---|---|---|---|---|---|---|
| Administration Building (Building 1, ID 22037) | 1935, 1997 | c1964, 1981, 2013 | Significant (Primary) | Renovate | - | - | 45,964 |
| Gymnasium/Physical Education Building (Building 2, ID 22223) | c1936 | 2010 | Significant (Primary) | Renovate | - | - | 23,094 |
| Classroom Building #1 (English Building) (Building 3, ID 31223) | 1938 | 1981, 2013 | Significant (Primary) | Renovate | - | - | 28,151 |
| Industrial Arts Building (Building 4, ID 21993) | 1935 | 1965, 1969 | Contributing (Tertiary) | Demolish | 18,432 | - | - |
| Auditorium (Building 5, ID 22080) | c1936 | | Significant (Primary) | ADA Upgrades | | | |
| Home Economics Building (Building 6, ID 21037) | 1935 | 1968, 1981, 2013 | Contributing (Secondary) | Renovate | | | 18,610 |

6 LAUSD. January 2015. LAUSD Design Guidelines and Treatment Approaches for Historic Schools. Los Angeles, CA.

| Current Building Name (Building Number and/or ID) a, b | Year Constructed c | Alterations/ Repairs | Historic Status | Project Activity | Removal (sf) | New Construction (sf) | Remodel (sf) |
|---|---|---|---|---|---|---|---|
| Girls' Gymnasium (Building 7, ID 20816) | 1960 | | Non-Contributing | - | - | - | - |
| Classroom Building #2 (Science Building) (Building 8, 20685) | 1961 | 1999 | Non-Contributing | Minor Improvements | - | - | 46,218 |
| Shop Building (Building 9, ID 21093) | 1969 | | Non-Contributing | Demolish | 15,806 | - | - |
| Lunch Shelter (Building 10, ID 21892) | 1941 | | Non-Contributing | Demolish | 1.850 | - | - |
| Arcade 1 (ID 53263) | | | Non-Contributing | - | | | |
| Arcade 2 (ID 53282) | | | Non-Contributing | - | | | |
| Arcade 3 (ID 53283) | | | Non-Contributing | - | | | |
| Arcade 4 (ID 54867) | 1964 | | Non-Contributing | - | | | |
| Arcade 5 (ID 54868) | 1964 | | Non-Contributing | - | | | |
| Food Service Unit (Building 13, ID 22117) | 1961 | | Non-Contributing | Demolish | 444 | - | - |
| Flammable Storage (ID 21897) | 1953 | | Non-Contributing | - | | | |
| Modular BB-182 (ID 22898) | 1973 | | Non-Contributing | Remove | 3,479 | | |
| Portable A-2241 (Building 38, ID 21833) | 1999 | | Non-Contributing | Remove | 960 | | |
| Portable A-2281 (ID 22515) | | | Non-Contributing | Remove | 960 | | |
| Portable AA-1007 (ID 22385) | 1950 | | Non-Contributing | Remove | 1,692 | | |
| Portable AA-2082 (ID 21557) | 1960 | | Non-Contributing | Remove | 1,836 | | |
| Kiosk (ID 36342) | | | Non-Contributing | | | | |
| New Gymnasium (Building 42, ID 29254) | 2005 | | Non-Contributing | | | | |
| Grandstand (home) (Building 36, ID 31242) | 2009 | | Non-Contributing | | | | |

| Current Building Name (Building Number and/or ID) a, b | Year Constructed c | Alterations/ Repairs | Historic Status | Project Activity | Removal (sf) | New Construction (sf) | Remodel (sf) |
|---|---|---|---|---|---|---|---|
| Grandstand (visitor) (ID 31243) | 2009 | | Non-Contributing | | | | |
| Electrical Building (ID 53302) | | | Non-Contributing | | | | |
| Sanitary Building 1 (ID 26248) | 2000 | | Non-Contributing | | | | |
| Sanitary Building 2 (ID 29186) | 2000 | | Non-Contributing | | | | |
| Snack Shack (ID 53303) | | | Non-Contributing | | | | |

SOURCE: LAUSD, June 2017.
NOTES:
a. Building numbers correspond to the numbering system shown in architectural drawings dated September 11, 2017.
b. ID numbers were provided by LAUSD.
c. Construction dates provided by LAUSD.

As outlined in Table 2, the proposed Project would include demolition of the following facilities:

- Industrial Arts Building
- Shop Building
- Food Service Unit
- Four relocatable or portable buildings and one modular building

The proposed Project would include construction of the following facilities that would be designed, constructed, and furnished/equipped to current code requirements and District design standards:

- Band and Industrial Arts Building (Building B)
- Lunch Shelter or Lunch Shelters
- Administration, Food Service, and Classroom Building (Building A)
- Central Plant

Modernization, upgrades, and seismic retrofits would be completed for the following buildings:

- Home Economics Building
- Administration Building
- Classroom Building # 1

More specifically, the proposed modifications to interior and exterior spaces of the Administration Building, Classroom Building No. 1, and Home Economics Building include:

- While the corridor configuration would remain the same, the classrooms and offices would be resized through the demolition and reconstruction of interior walls on the first and second floors of the Administration Building (Building 1), Classroom Building No. 1 (Building 3), and Home Economics Building (Building 6).

- The basement of the Administration Building (Building 1) would be reconfigured to accommodate new facilities offices and storage space.

- Original stairwells and existing concrete stairs would remain in place in all three buildings.

- Decorative murals located in the second floor library of the Administration Building (Building 1) would be removed, stored, and reinstalled upon completion of retrofit in accordance with a mural conservation plan.

- Breezeway connecting the Administration Building (Building 1) and Classroom Building No. 1 (Building 3), and bridge connecting the Administration Building (Building 1) and Home Economics Building (Building 6) would be retained.

- A canopy would be installed over the bridge connecting the Administration Building (Building 1) and Home Economics Building (Building 6); and

- The administration area would move to the second floor of the new Building A.

Upgrades to the Physical Education Building (Old Gymnasium) would be less extensive than the improvements to the three buildings undergoing modernization and would include voluntary seismic retrofits, a new wood floor in the main court, and American with Disabilities Act (ADA) upgrades. Seismic retrofitting would be completed in compliance with the seismic safety requirements of the LAUSD Supplemental Geohazard Assessment Scope of Work, California Building Code, Division of State Architect, and CDE. In particular, the proposed modifications to the Old Gymnasium/Physical Education Building's interior and exterior spaces include:

- Remodeling of male and female locker rooms, restrooms, and shower areas providing ADA upgrades as a result of seismic upgrades that will include reconfiguration of stalls, installation of seating, and widening of doorways;

- Existing interior stairwells and stairs would remain in place;

- Select reconstruction of interior walls for seismic upgrades;

- Telescopic bleachers would be removed and refurbished as needed, stored offsite, and reinstalled

- Exterior alterations include cleaning and repainting the existing walls, doors, windows, louvers, frames, vents, and trim

- Construction of two new ADA ramps on the east side of the building as a result of seismic upgrades.

The Project includes American with Disabilities Act (ADA) upgrades in the Auditorium. Auditorium modifications and ADA improvements would include:

- Interior ADA access improvements including the following:
    - replacing the stairs with a new wheelchair lift at the front of the stage closest to the south wall;
    - installation of one row of new seating at the front and at the rear of the auditorium and reconditioning and/or replacement of damaged existing seating; and,
    - remodeling the existing restrooms to include accessible stalls
- Exterior alterations include cleaning and repainting the existing walls, doors, windows louvers, frames, vents, and trim
- Exterior ADA access improvements include the following:
    - improvements to the main entry; and
    - construction of two new ramps.

Upgrades to Classroom Building #2 (Science Building) include minor modernization to convert four science labs into general classrooms, reconfiguration of space for a Small Learning Community (SLC), and American with Disabilities Act (ADA) upgrades that include a new elevator. Classroom Building # 2 (Science Building) would also receive an exterior facelift to make the building compatible with the architectural features of the historic buildings and the designs for the new buildings.

Upgrades that would be completed throughout the campus include:

- Site-wide infrastructure, including electrical, storm drain, gas, sewer, and water improvements
- Site-wide upgrades to remove identified and prioritized barriers to program accessibility
- Student drop off area, landscape, hardscape, and exterior paint

Improvements required by the ADA, Division of the State Architect, CEQA, and the Office of the Independent Monitor for program accessibility, would ensure compliance with local, state, and/or federal facilities requirements.

# 1.4 Fundamentals of Noise

## 1.4.1 Noise Principles and Descriptors

Sound can be described as the mechanical energy of a vibrating object transmitted by pressure waves through a liquid, or gaseous, medium (e.g., air). Noise is generally defined as unwanted sound (i.e., loud, unexpected, or annoying sound). Acoustics is defined as the physics of sound. In acoustics, the fundamental scientific model consists of a sound (or noise) source, a receiver, and the propagation path between the two. The loudness of the noise source and obstructions, or atmospheric factors affecting the propagation path to the receiver determines the sound level and characteristics of the noise perceived by the receiver. Acoustics addresses primarily the propagation and control of sound.[7]

Sound, traveling in the form of waves from a source, exerts a sound pressure level (referred to as sound level) that is measured in decibels (dB), which is the standard unit of sound amplitude measurement. The dB scale is a logarithmic scale that describes the physical intensity of the pressure vibrations that make up any sound, with 0 dB corresponding roughly to the threshold of human hearing and 120 to 140 dB corresponding to the threshold of pain. Pressure waves traveling through air exert a force registered by the human ear as sound.[8]

Sound pressure fluctuations can be measured in units of hertz (Hz), which correspond to the frequency of a particular sound. Typically, sound does not consist of a single frequency, but rather a broad band of frequencies varying in levels of magnitude, with audible frequencies of the sound spectrum ranging from 20 to 20,000 Hz. The sound pressure level, therefore, constitutes the additive force exerted by a sound corresponding to the sound frequency/sound power level spectrum.[9] The typical human ear is not equally sensitive to this frequency range. As a consequence, when assessing potential noise impacts, sound is measured using an electronic filter that deemphasizes the frequencies below 1,000 Hz and above 5,000 Hz in a manner corresponding to the human ear's decreased sensitivity to these extremely low and extremely high frequencies. This method of frequency filtering, or weighting, is referred to as A-weighting, expressed in units of A-weighted decibels (dBA), which is typically applied to community noise measurements.[10] Some representative common outdoor and indoor noise sources and their corresponding A-weighted noise levels are shown in **Figure 3**, *Decibel Scale and Common Noise Sources*.

## 1.4.2 Noise Exposure and Community Noise

An individual's noise exposure is a measure of noise over a period of time; a noise level is a measure of noise at a given instant in time, as presented Figure 3. However, noise levels rarely persist at that level over a long period of time. Rather, community noise varies continuously over a period of time with respect to the sound sources contributing to the community noise

7 M David Egan, *Architectural Acoustics*, Chapter 1, March, 1988.
8 M David Egan, *Architectural Acoustics*, Chapter 1, March, 1988.
9 M David Egan, *Architectural Acoustics*, Chapter 1, March, 1988.
10 M David Egan, *Architectural Acoustics*, Chapter 1, March, 1988.

environment. Community noise is primarily the product of many distant noise sources, which constitute a relatively stable background noise exposure, with many of the individual contributors unidentifiable. The background noise level changes throughout a typical day, but does so gradually, corresponding with the addition and subtraction of distant noise sources, such as changes in traffic volume. What makes community noise variable throughout a day, besides the slowly changing background noise, is the addition of short-duration, single-event noise sources (e.g., aircraft flyovers, motor vehicles, sirens), which are readily identifiable to the individual.[11]

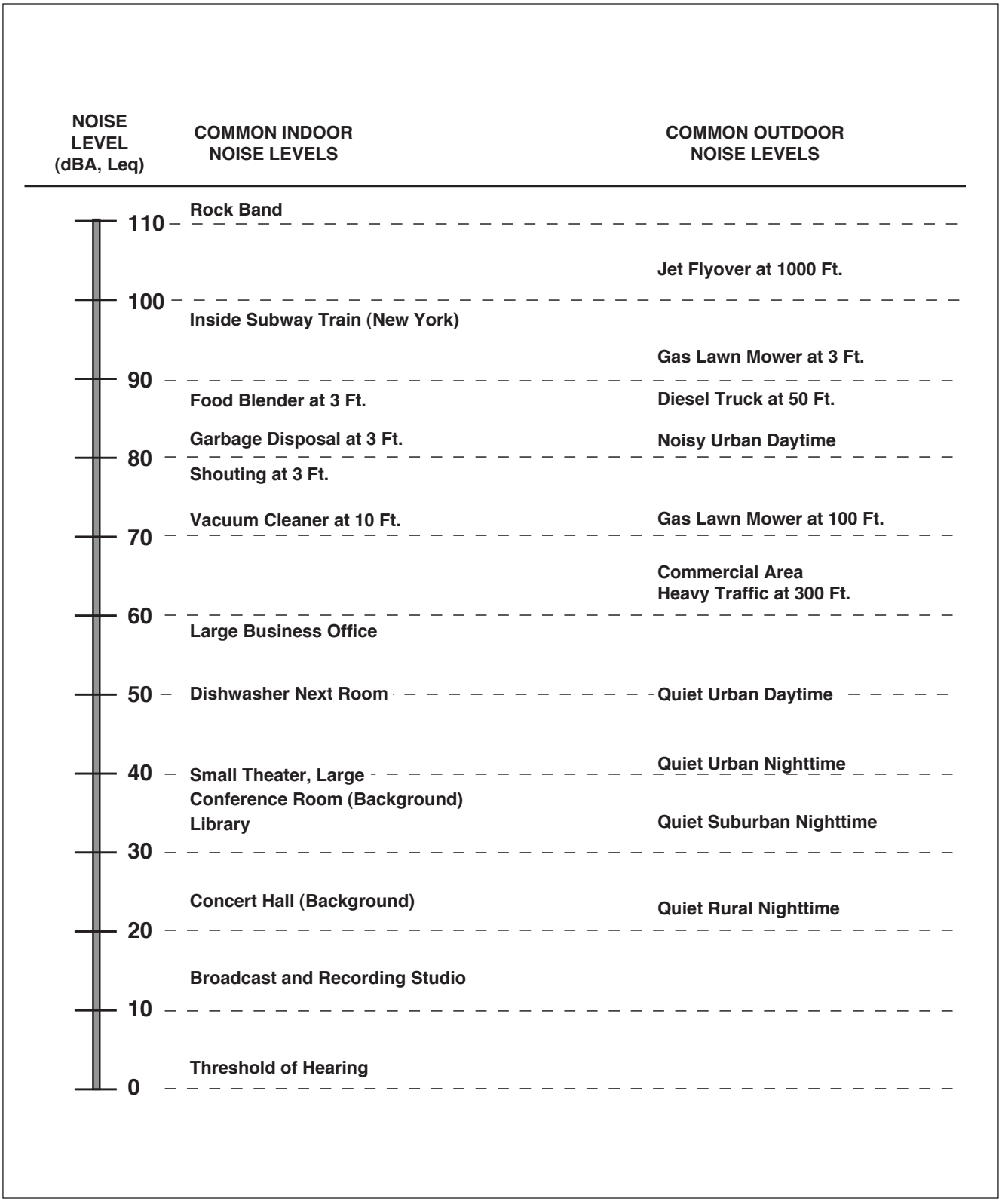
These successive additions of sound to the community noise environment change the community noise level from instant to instant, requiring the noise exposure to be measured over periods of time to legitimately characterize a community noise environment and evaluate cumulative noise impacts. The following noise descriptors are used to characterize environmental noise levels over time, which are applicable to the Project.[12]

$L_{eq}$: The equivalent sound level, is used to describe noise over a specified period of time in terms of a single numerical value; the $L_{eq}$ of a time-varying signal and that of a steady signal are the same if they deliver the same acoustic energy over a given time. The $L_{eq}$ may also be referred to as the average sound level.

$L_{dn}$: the average A-weighted noise level during a 24-hour day, obtained after an addition of 10 dB to measured noise levels between the hours of 10:00 p.m. to 7:00 a.m. to account nighttime noise sensitivity. The $L_{dn}$ is also termed the day-night average noise level (DNL).

CNEL: The Community Noise Equivalent Level (CNEL) is the average A-weighted noise level during a 24-hour day that is obtained after an addition of 5 dB to measured noise levels between the hours of 7:00 a.m. to 10:00 p.m. and after an addition of 10 dB to noise levels between the hours of 10:00 p.m. to 7:00 a.m. to account for noise sensitivity in the evening and nighttime, respectively.

[11] California Department of Transportation, *Technical Noise Supplement* (TeNS), Section 2.2.2.1, September, 2013.
[12] California Department of Transportation, *Technical Noise Supplement* (TeNS), Section 2.2.2.2, September, 2013.




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SOURCE: State of California, Department of Transportation (Caltrans), Technical Noise Supplement (TeNS). October 1998. Available: http://www.dot.ca.gov/hq/env/noise/pub/Technical Noise Supplement.pdf

**Figure 3**
Decibel Scale and Common Noise Sources

### 1.4.3 Effects of Noise on People

Noise is generally loud, unpleasant, unexpected, or undesired sound that is typically associated with human activity that is a nuisance, or disruptive. The effects of noise on people can be placed into four general categories:

- Subjective effects (e.g., dissatisfaction, annoyance);
- Interference effects (e.g., communication, sleep, and learning interference);
- Physiological effects (e.g., startle response); and
- Physical effects (e.g., hearing loss).

Although exposure to high noise levels has been demonstrated to cause physical and physiological effects, the principal human responses to typical environmental noise exposure are related to subjective effects and interference with activities. Interference effects interrupt daily activities and include interference with human communication activities, such as normal conversations, watching television, telephone conversations, and interference with sleep. Sleep interference effects can include both awakening and arousal to a lesser state of sleep.[13]

With regard to the subjective effects, the responses of individuals to similar noise events are diverse and influenced by many factors, including the type of noise, the perceived importance of the noise, the appropriateness of the noise to the setting, the duration of the noise, the time of day and the type of activity during which the noise occurs, and individual noise sensitivity. Overall, there is no completely satisfactory way to measure the subjective effects of noise, or the corresponding reactions of annoyance and dissatisfaction on people. A wide variation in individual thresholds of annoyance exists, and different tolerances to noise tend to develop based on an individual's past experiences with noise. Thus, an important way of predicting a human reaction to a new noise environment is the way it compares to the existing environment to which one has adapted (i.e., comparison to the ambient noise environment). In general, the more a new noise level exceeds the previously existing ambient noise level, the less acceptable the new noise level will be judged by those hearing it. With regard to increases in A-weighted noise level, the following relationships generally occur:[14]

- Except in carefully controlled laboratory experiments, a change of 1 dBA in ambient noise levels cannot be perceived;
- Outside of the laboratory, a 3 dBA change in ambient noise levels is considered to be a barely perceivable difference;
- A change in ambient noise levels of 5 dBA is considered to be a readily perceivable difference; and
- A change in ambient noise levels of 10 dBA is subjectively heard as doubling of the perceived loudness.

13 California Department of Transportation, *Technical Noise Supplement* (TeNS), Section 2.2.1, September 2013.
14 California Department of Transportation, *Technical Noise Supplement* (TeNS), Section 2.2.1, September 2013.

These relationships occur in part because of the logarithmic nature of sound and the decibel scale. The human ear perceives sound in a non-linear fashion; therefore, the dBA scale was developed. Because the dBA scale is based on logarithms, two noise sources do not combine in a simple additive fashion, but rather logarithmically. Under the dBA scale, a doubling of sound energy corresponds to a 3 dBA increase. In other words, when two sources are each producing sound of the same loudness, the resulting sound level at a given distance would be approximately 3 dBA higher than one of the sources under the same conditions. For example, if two identical noise sources produce noise levels of 50 dBA, the combined sound level would be 53 dBA, not 100 dBA. Under the dB scale, three sources of equal loudness together produce a sound level of approximately 5 dBA louder than one source, and 10 sources of equal loudness together produce a sound level of approximately 10 dBA louder than the single source.[15]

### 1.4.4 Noise Attenuation

When noise propagates over a distance, the noise level reduces with distance depending on the type of noise source and the propagation path. Noise from a localized source (i.e., point source) propagates uniformly outward in a spherical pattern, referred to as "spherical spreading." Stationary point sources of noise, including stationary mobile sources such as idling vehicles, attenuate (i.e., reduce) at a rate between 6 dBA for acoustically "hard" sites and 7.5 dBA for "soft" sites for each doubling of distance from the reference measurement, as their energy is continuously spread out over a spherical surface (e.g., for hard surfaces, 80 dBA at 50 feet attenuates to 74 at 100 feet, 68 dBA at 200 feet, etc.). Hard sites are those with a reflective surface between the source and the receiver, such as asphalt, or concrete, surfaces, or smooth bodies of water. No excess ground attenuation is assumed for hard sites and the reduction in noise levels with distance (drop-off rate) is simply the geometric spreading of the noise from the source. Soft sites have an absorptive ground surface, such as soft dirt, grass, or scattered bushes and trees, which in addition to geometric spreading, provides an excess ground attenuation value of 1.5 dBA (per doubling distance).[16]

Roadways and highways consist of several localized noise sources on a defined path, and hence are treated as "line" sources, which approximate the effect of several point sources. Noise from a line source propagates over a cylindrical surface, often referred to as "cylindrical spreading."[17] Line sources (e.g., traffic noise from vehicles) attenuate at a rate between 3 dBA for hard sites and 4.5 dBA for soft sites for each doubling of distance from the reference measurement.[18] Therefore, noise due to a line source attenuates less with distance than that of a point source with increased distance.

Additionally, receptors located downwind from a noise source can be exposed to increased noise levels relative to calm conditions, whereas locations upwind can have lowered noise levels. Atmospheric temperature inversion (i.e., increasing temperature with elevation) can increase

15 California Department of Transportation, *Technical Noise Supplement* (TeNS), Section 2.2.1.1, September 2013.
16 California Department of Transportation, *Technical Noise Supplement* (TeNS), Section 2.1.4.2, September 2013.
17 California Department of Transportation, *Technical Noise Supplement* (TeNS), Section 2.1.4.1, September 2013
18 California Department of Transportation, *Technical Noise Supplement* (TeNS), Section 2.1.4.1, September 2013.

sound levels at long distances (e.g., more than 500 feet). Other factors such as air temperature, humidity, and turbulence can also have significant effects on noise levels.[19]

## 1.5 Fundamentals of Vibration

Vibration can be interpreted as energy transmitted in waves through the ground, or man-made structures, which generally dissipate with distance from the vibration source. Because energy is lost during the transfer of energy from one particle to another, vibration becomes less perceptible with increasing distance from the source.

As described in the Federal Transit Administration's (FTA) *Transit Noise and Vibration Impact Assessment*, ground-borne vibration can be a serious concern for nearby neighbors of a transit system route, or maintenance facility, causing buildings to shake and rumbling sounds to be heard.[20] In contrast to airborne noise, ground-borne vibration is not a common environmental problem, as it is unusual for vibration from sources such as buses and trucks to be perceptible, even in locations close to major roads. Some common sources of ground-borne vibration are trains, heavy trucks traveling on rough roads, and construction activities, such as blasting, pile-driving, and operation of heavy earth-moving equipment.[21]

There are several different methods that are used to quantify vibration. The peak particle velocity (PPV) is defined as the maximum instantaneous peak of the vibration signal in inches per second (in/sec), and is most frequently used to describe vibration impacts to buildings. The root mean square (RMS) amplitude is defined as the average of the squared amplitude of the signal and is most frequently used to describe the effect of vibration on the human body. Decibel notation (VdB) is commonly used to measure RMS. The relationship of PPV to RMS velocity is expressed in terms of the "crest factor," defined as the ratio of the PPV amplitude to the RMS amplitude. PPV is typically a factor of 1.7 to 6 times greater than RMS vibration velocity.[22] The decibel notation VdB acts to compress the range of numbers required to describe vibration. Typically, ground-borne vibration generated by man-made activities attenuates rapidly with distance from the source of the vibration. Sensitive receptors for vibration include buildings where vibration would interfere with operations within the building, or cause damage (especially older masonry structures), locations where people sleep, and locations with vibration sensitive equipment.[23]

The effects of ground-borne vibration include movement of the building floors, rattling of windows, shaking of items on shelves, or hanging on walls, and rumbling sounds. In extreme cases, the vibration can cause damage to buildings. Building damage is not a factor for most projects, with the occasional exception of blasting and pile-driving during construction. Annoyance from vibration often occurs when the vibration levels exceed the threshold of

19 California Department of Transportation, *Technical Noise Supplement* (TeNS), Section 2.1.4.3, September 2013.

20 Federal Transit Administration, Transit Noise and Vibration Impact Assessment, Section 7, May 2006.

21 California Department of Transportation, *Transportation and Construction Vibration Guidance Manual*, p. 1, September 2013.

22 Federal Transit Administration, Transit Noise and Vibration Impact Assessment, Section 12.2.2, May 2006.

23 Federal Transit Administration, Transit Noise and Vibration Impact Assessment, Section 6.1, 6.2, and 6.3, September 2013.

perception by only a small margin. A vibration level that causes annoyance will be well below the damage threshold for normal buildings.

# 1.6 Existing Conditions

Some land uses are considered more sensitive to ambient noise levels than others are, due to the amount of noise exposure (in terms of both exposure duration and insulation from noise) and the types of activities typically involved. According to the General Plan, residential areas are to be the most sensitive type of land use to noise and industrial/commercial areas are considered to be the least sensitive. Existing noise sensitive uses on the Project site and in the immediate vicinity include:

- Onsite: School classrooms;
- To the North: a mix of single- and multi-family residences are located along West 14th Street, West 15th Street, and South Alma Street.
- To the South: a mix of single- and multi-family residences are located along West 17th Street.
- To the West: single-family residences are located along South Leland Street.
- To the East: a mix of single- and multi-family residences are located along West 17th Street, and Dana Middle School is located along South Cabrillo Avenue.

## 1.6.1 Ambient Noise Levels

Schools can generate noise from sports events, athletic fields, playgrounds and parking lot activity, and some of these features may potentially cause noise increases at nearby receptors, as schools are typically located in residential areas.[24] San Pedro HS is predominantly surrounded by single- and multi-family residential uses.

To establish existing ambient noise levels, ambient noise measurements were conducted at five locations, representing the nearest land uses in the vicinity of the Project site. The measurement locations, along with existing development, are shown on **Figure 4**, *Noise Measurement Locations*. Short-term (15-minute) noise measurements were conducted at locations R1 through R5 between approximately 8:30 A.M. and 10:00 A.M. on Friday, December 22, 2017, to characterize the existing noise environment in the Project vicinity. Because classes were not in session due to the winter break, typical school-related noise, such as student and staff trips, outdoor physical education activity, and student conversation, were not included in the ambient noise measurements. Therefore, the measured ambient noise levels represent a lower, more conservative baseline ambient noise environment from which to perform the noise analysis included herein.

The ambient noise measurements were conducted using the Larson-Davis 820 Precision Integrated Sound Level Meter ("SLM"). The Larson-Davis 820 SLM is a Type 1 standard instrument as defined in the American National Standard Institute S1.4. All instruments were

[24] LAUSD School Upgrade Program Draft EIR, June 2014, at pages 5.12-23 to 5.12-24.

calibrated and operated according to the applicable manufacturer specification. The microphone was placed at a height of 5 feet above the local grade at the following locations, as shown in Figure 4:

**R1:** Represents the existing noise environment of residential uses along West 14th Street, north of the Project site's existing north parking lot and baseball field.

**R2:** Represents the existing noise environment of residential uses along South Alma Street, west of the Project site's existing northern parking lot.

**R3:** Represents the existing noise environment of residential uses along West 15th Street, north of existing San Pedro HS buildings.

**R4:** Represents the existing noise environment of residential uses along Leland Street, west of existing San Pedro HS Buildings.

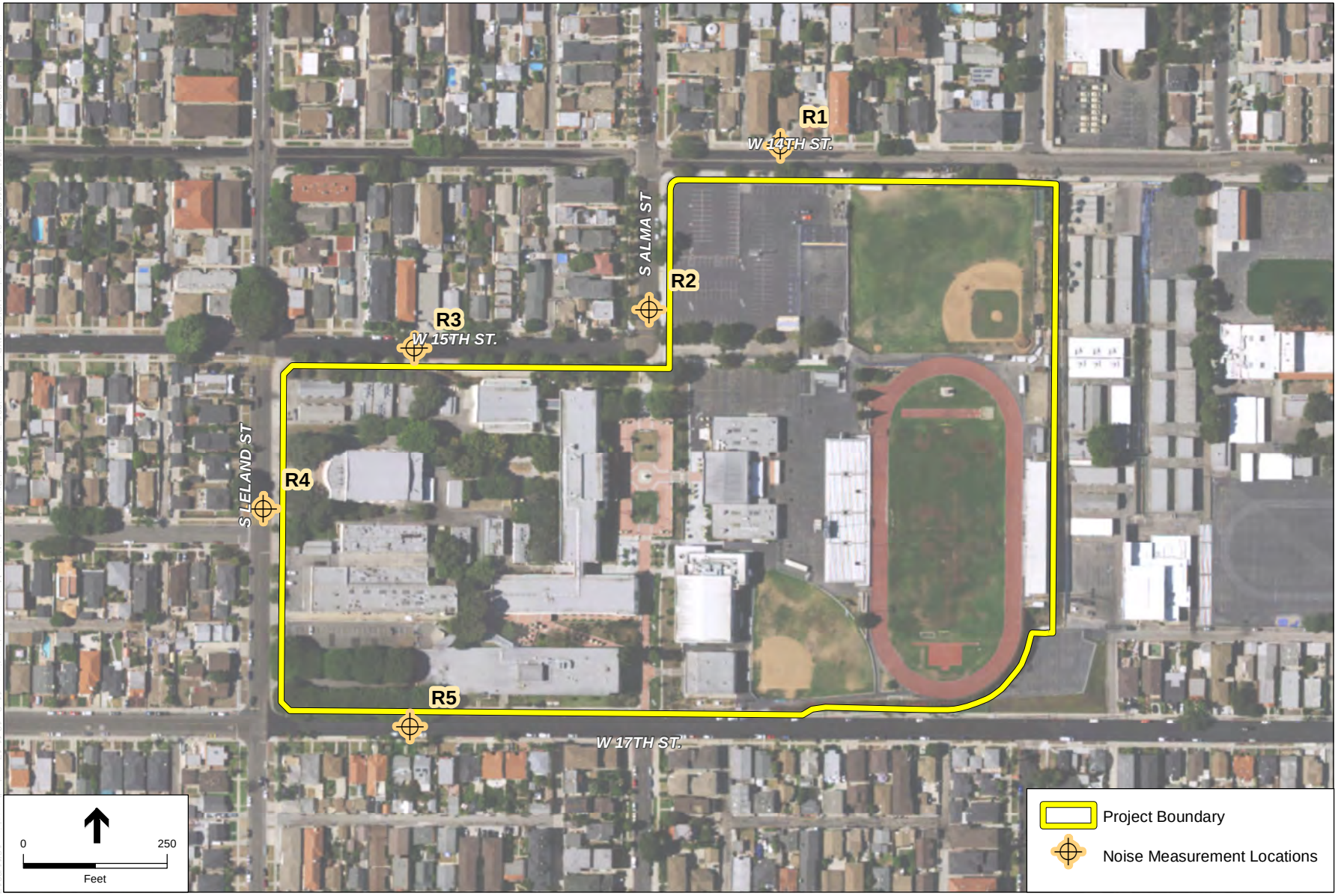
**R5:** Represents the existing noise environment of residential uses along West 17th Street, south of the Project site.

A summary of noise measurement data is provided in **Table 3** *Summary of Ambient Noise Measurements*. As shown in Table 3, daytime ambient noise levels ranged from approximately 51 dBA to 54 dBA, $L_{eq}$.

**TABLE 3**
**SUMMARY OF AMBIENT NOISE MEASUREMENTS**

| Location, Duration, Existing Land Uses and, Date of Measurements | Measured Daytime Ambient Noise Levels (7 A.M. to 10 P.M.) Hourly dBA $L_{eq}$ |
|---|---|
| **R1** | |
| 12/22/17 8:59 A.M. to 12/22/17 9:14 A.M. | 53 |
| **R2** | |
| 12/22/17 9:55 A.M. to 12/22/17 10:10 A.M. | 54 |
| **R3** | |
| 12/22/17 8:36 A.M. to 12/22/17 8:51 A.M. | 51 |
| **R4** | |
| 12/22/17 9:19 A.M. to 12/22/17 9:34 A.M. | 54 |
| **R5** | |
| 12/22/17 9:36 A.M. to 12/22/17 9:51 A.M. | 54 |

SOURCE: ESA, 2017




SOURCE: ESRI

San Pedro High School Comprehensive Modernization Project . 211085.31

**Figure 4**

Noise Measurement Locations

### 1.6.2 Existing Groundborne Vibration Levels

Aside from periodic construction work that may occur throughout the City, other sources of groundborne vibration in the Project site vicinity may include heavy-duty vehicular travel (e.g., refuse trucks, delivery trucks, etc.) on local roadways. According to FTA, rubber-tire vehicles rarely create ground-borne vibration problems unless there is a discontinuity, or bump, in the road that causes the vibration. A typical bus operating on smooth roadway would generate groundborne vibration velocity levels of approximately 63 VdB (approximately 0.006 in/sec PPV) at 50 feet.[25]

# 2. Regulatory Setting

A number of statutes, regulations, plans and policies have been adopted which address noise and vibration concerns. Detailed below is a discussion of the relevant regulatory setting and noise and vibration regulations, plans, and policies.

## 2.1 Federal

The Program EIR uses the FTA's guidance, 2006 Transit Noise and Vibration Impact Assessment, to evaluate vibration levels resulting from Project construction activities on human annoyance and structural damage. Based on this guidance, the vibration standards are presented in **Table 4** *Ground-Borne Vibration Criteria: Human Annoyance* and **Table 5** *Ground-Borne Vibration Criteria: Architectural Damage*.

**TABLE 4**
**GROUND-BORNE VIBRATION CRITERIA: HUMAN ANNOYANCE**

| Land Use Category | Max Lv (VdB) | Description |
|---|---|---|
| Workshop | 90 | Distinctly felt vibration. Appropriate to workshops and nonsensitive areas. |
| Office | 84 | Felt vibration. Appropriate to offices and nonsensitive areas. |
| Residential – Daytime | 78 | Barely felt vibration. Adequate for computer equipment. |
| Residential – Nighttime | 72 | Vibration not felt, but groundborne noise may be audible inside quiet rooms. |

NOTE: Max Lv (VdB): Lv is the velocity level in decibels, as measured in 1/3-octave bands of frequency over the frequency ranges of 8 to 80 Hz.

SOURCE: FTA, 2006; PEIR 2014.

[25] FTA, 2006. Transit Noise and Vibration Impact Assessment. May 2006.

**TABLE 5**
**GROUND-BORNE VIBRATION CRITERIA: ARCHITECTURAL DAMAGE**

| Building Category | PPV (in/sec) |
|---|---|
| I. Reinforced-concrete, steel or timber (no plaster) | 0.5 |
| II. Engineered concrete and masonry (no plaster) | 0.3 |
| III. Non-engineered timber and masonry buildings | 0.2 |
| IV. Buildings extremely susceptible to vibration damage | 0.12 |

NOTE: Lv (VdB): Lv is the velocity level in decibels, as measured in 1/3-octave bands of frequency over the frequency ranges of 8 to 80 Hz.

SOURCE: FTA 2006; PEIR, 2014

## 2.2 State

Under California Code of Regulations (CCR) Title 5,[26] the California Department of Education (CDE) regulations require the school district to consider noise in the site selection process. As recommended by CDE guidance, if a school district is considering a potential school site near a freeway, or other source of noise, it should hire an acoustical engineer to determine the level of sound that the site is exposed to and to assist in designing the school should that site be chosen.

CCR Title 24 establishes the California Building Code (CBC). The most recent building standard adopted by the legislature and used throughout the state is the 2016 version, which took effect on January 1, 2017. The State of California's noise insulation standards are codified in the CBC (Title 24, Part 2, Chapter 12). These noise standards are for new construction in California for the purposes of interior compatibility with exterior noise sources. The regulations specify that acoustical studies must be prepared when noise-sensitive structures, such as residential, schools, or hospitals, are near major transportation noises, and where such noise sources create an exterior noise level of 60 dBA CNEL, or higher. Acoustical studies that accompany building plans must demonstrate that the structure has been designed to limit interior noise in habitable rooms to acceptable noise levels. For new residential buildings, schools, and hospitals, the acceptable interior noise limit for new construction is 45 dBA CNEL.

## 2.3 Local

While LAUSD is exempt from local jurisdictional municipal codes, the District typically considers local plans and policies for the communities surrounding its facilities. The proposed Project is located within the City of Los Angeles. Applicable City of Los Angeles and LAUSD noise standards and policies are described below.

[26] California Code of Regulations, Title 5. Education, Division 1. California Department of Education, Chapter 13. School Facilities and Equipment, Subchapter 1. School Housing, Article 2. School Sites, 14010. Standards for School Site Selection. Available: https://govt.westlaw.com/calregs/Document/I8037DA60D48011DEBC02831C6D6C108E?viewType=FullText&originationContext=documenttoc&transitionType=CategoryPageItem&contextData=(sc.Default). Accessed September 2017.

### 2.3.1 City of Los Angeles Municipal Code

Chapter XI, Noise Regulation, of the Los Angeles Municipal Code (LAMC) establishes acceptable ambient sound levels to regulate intrusive noises (e.g., stationary mechanical equipment and vehicles other than those traveling on public streets) within specific land use zones and provides procedures and criteria for the measurement of the sound level of noise sources. These procedures recognize and account for differences in the perceived level of different types of noise and/or noise sources. In accordance with the Noise Regulations, a noise level increase from certain regulated noise sources of 5 dBA $L_{eq}$ over the existing, or presumed, ambient noise level at an adjacent property line is considered a violation of the Noise Regulations. The 5 dBA $L_{eq}$ increase above ambient is applicable to City-regulated noise sources (e.g., mechanical equipment), and it is applicable any time of the day.[27]

To account for people's increased tolerance for short-duration noise events, the Noise Regulations provide a 5 dBA $L_{eq}$ allowance for noise occurring more than 5 but less than 15 minutes in any 1-hour period and an additional 5 dBA $L_{eq}$ allowance (total of 10 dBA $L_{eq}$) for noise occurring 5 minutes, or less, in any 1-hour period.[28]

Section 41.40 of the LAMC prohibits any construction, or repair work, of any kind between the hours of 9:00 p.m. and 7:00 a.m. of the following day. It also prohibits construction activities before 8:00 a.m., or after 6:00 p.m. on any Saturday, or national holiday, or at any time on any Sunday.

Section 112.05 of the LAMC defines the maximum noise level of powered equipment, or powered hand tools. The noise level is limited to 75 dBA at 50 feet for construction, industrial, and agricultural machinery including crawler-tractors, dozers, rotary drills and augers, loaders, power shovels, cranes, derricks, motor graders, paving machines, off-highway trucks, ditchers, trenchers, compactors, scrapers, wagons, pavement breakers, compressors and pneumatic, or other powered equipment, between the hours of 7:00 a.m. and 10:00 p.m., in any residential zone of the City, or within 500 feet. However, noise limitations shall not apply where compliance is technically infeasible, which means that noise limitations cannot be complied with despite the use of mufflers, shields, sound barriers and/or other noise reduction device, or techniques, during the operation of the equipment.

### 2.3.2 City of Los Angeles Guidelines for Noise-Compatible Land Uses

The City has adopted local guidelines based, in part, on the community noise compatibility guidelines established by the State Department of Health Services for use in assessing the compatibility of various land use types with a range of noise levels. These guidelines are set forth in the City of LA CEQA Thresholds Guide in terms of the CNEL. CNEL guidelines for specific land uses are classified into four categories: (1) "normally acceptable," (2) "conditionally acceptable," (3) "normally unacceptable," and (4) "clearly unacceptable." As shown in **Table 6**

[27] City of Los Angeles, Municipal Code, Chapter XI, Noise Regulation, Section 112.02.

[28] City of Los Angeles Municipal Code, Chapter XI, Noise Regulation, Article I, Section 111.02-(b).

*City of Los Angeles Land Use Compatibility for Community Noise*, a CNEL value of 70 dBA is the upper limit of what is considered a "conditionally acceptable" noise environment for hotel uses, although the upper limit of what is considered "normally acceptable" for hotel uses is set at 65 dBA CNEL.[29]

**TABLE 6**
**CITY OF LOS ANGELES LAND USE COMPATIBILITY FOR COMMUNITY NOISE**

| | Community Noise Exposure CNEL (dBA) | | | |
|---|---|---|---|---|
| **Land Use** | **Normally Acceptable** | **Conditionally Acceptable** | **Normally Unacceptable** | **Clearly Unacceptable** |
| Single-Family, Duplex, Mobile Homes | 50 to 60 | 55 to 70 | 70 to 75 | Above 70 |
| Multi-Family Homes | 50 to 65 | 60 to 70 | 70 to 75 | Above 70 |
| Schools, Libraries, Churches, Hospitals, Nursing Homes | 50 to 70 | 60 to 70 | 70 to 80 | Above 80 |
| Transient Lodging—Motels, Hotels | 50 to 65 | 60 to 70 | 70 to 80 | Above 80 |
| Auditoriums, Concert Halls, Amphitheaters | — | 50 to 70 | — | Above 65 |
| Sports Arena, Outdoor Spectator Sports | — | 50 to 75 | — | Above 70 |
| Playgrounds, Neighborhood Parks | 50 to 70 | — | 67 to 75 | Above 72 |
| Golf Courses, Riding Stables, Water Recreation, Cemeteries | 50 to 75 | — | 70 to 80 | Above 80 |
| Office Buildings, Business and Professional Commercial | 50 to 70 | 67 to 77 | Above 75 | — |
| Industrial, Manufacturing, Utilities, Agriculture | 50 to 75 | 70 to 80 | Above 75 | — |

**Normally Acceptable:** Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal conventional construction without any special noise insulation requirements.

**Conditionally Acceptable:** New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed noise insulation features included in the design. Conventional construction, but with closed windows and fresh air supply systems or air conditioning will normally suffice.

**Normally Unacceptable:** New construction or development should generally be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise insulation features included in the design.

**Clearly Unacceptable:** New construction or development should generally not be undertaken.

SOURCE: City of Los Angeles, LA CEQA Thresholds Guide, 2006.

### 2.3.3 Los Angeles Unified School District Program EIR

The Program EIR for School Upgrade Program[30] establishes Standard Conditions (SCs) for reducing impacts on noise and vibration in areas where future projects would be implemented

[29] City of Los Angeles, 2006 LA CEQA Thresholds Guide: Your Resource for Preparing CEQA Analyses in Los Angeles, Section I.2, 2006.

[30] The Standard Conditions of Approval have been updated since the adoption of the 2015 version in order to incorporate and reflect changes in the recent laws, regulations, and the Los Angeles Unified School District's standard policies, practices, and specifications.

under the SUP. Applicable SCs related to noise impacts associated with the proposed Project are provided in **Table 7** *Noise Standard Conditions of Approval*.

As shown in Table 1, projects implemented under the Program EIR are anticipated to result in potentially significant and unavoidable impacts related to construction noise and vibration and impacts related to increases in traffic noise and exposure to airport noise are anticipated to be less-than-significant. The Project-specific analysis provided below determined that noise and vibration impacts related to implementation of the proposed Project would be less than significant with incorporation of SCs N-1 through N-9 and Mitigation Measures NOISE-1 and NOISE-2.

**TABLE 7**
**NOISE STANDARD CONDITIONS OF APPROVAL**

| Reference Number | Topic | Trigger for Compliance | Implementation Phase | Standard Conditions |
|---|---|---|---|---|
| SC-N-1 | Exterior Campus Noise | Exterior noise levels are or would be greater than 70 dBA $L_{10}$ or 67 dBA $L_{eq}$ | During Project design | LAUSD shall include features such as sound walls, building configuration, and other design features in order to attenuate exterior noise levels on a school campus to less than 70 dBA $L_{10}$ or 67 dBA $L_{eq}$. |
| SC-N-2 | Interior Classroom Noise | Interior classroom noise levels would be greater than 55 dBA $L_{10}$ or 45 dBA $L_{eq}$ | During Project design | LAUSD shall analyze the acoustical environment of the site (such as traffic) and the characteristics of planned building components (such as heating, ventilation, and air conditioning [HVAC]), and design to achieve interior classroom noise levels of less than 55 dBA $L_{10}$ or 45 dBA $L_{eq}$ with maximum (unoccupied) reverberation times of 0.6 seconds. Noise reduction methods shall include, but are not limited to, sound walls, building and/or classroom insulation, HVAC modifications, double-paned windows, and other design features in order to achieve the noise standards.<br>• The District should acknowledge the ANSI (American National Standards Institute) S12 standard as a District goal that may presently not be achievable in all cases.<br>• Where economically feasible, new school design should achieve classroom acoustical quality consistent with the ANSI standard and in no event exceed the current CHPS (California High Performance Schools) standard of 45 dBA.<br>• Where economically feasible, new HVAC (Heating, Ventilating, and Air Conditioning) installations should be designed to achieve the lowest possible noise level consistent with the ANSI standard. In no event should these installations exceed the current CHPS standard of 45 dBA.<br>• To promote the development of lower noise emitting HVAC units, the District's purchase of new units should give preference to manufacturers producing the lowest noise level at the lowest cost.<br>• Existing HVAC units operating in excess of 50 dBA should be modified. |
| SC-N-3 | Traffic Noise | Project-related traffic noise level exceeds local noise standards, policies, or ordinances | Prior to Project approval | LAUSD shall require an acoustical analysis to identify feasible measures to reduce traffic noise increases to 3 dBA CNEL or less at the noise-sensitive land use. LAUSD shall implement recommended measures to reduce noise. |
| SC-N-4 | Operational Noise | Operational noise levels exceeds local noise standards, policies, or ordinances at noise-sensitive land uses | During Project design and construction | LAUSD shall incorporate long-term permanent noise attenuation measures between playgrounds, stadiums, and other noise-generating facilities and noise-sensitive land uses, to reduce noise levels to meet jurisdictional standards or an increase of 3 dB or less over ambient.<br>Operational noise attenuation measures include, but are not limited to:<br>• buffer zones<br>• berms<br>• sound barriers:<br>– buildings<br>– masonry walls<br>– enclosed bleacher foot wells<br>– other site-specific Project design features. |
| SC-N-5 | Construction Noise and | Construction on an existing school campus | Prior to construction | LAUSD Facilities Division or its construction contractor shall consult and coordinate with the school principal or site administrator, and other nearby noise sensitive land uses prior to construction to |

| Reference Number | Topic | Trigger for Compliance | Implementation Phase | Standard Conditions |
|---|---|---|---|---|
| | Vibration (Annoyance) | | | schedule high noise or vibration producing activities to minimize disruption. Coordination between the school, nearby land uses and the construction contractor shall continue on an as-needed basis throughout the construction phase of the Project to reduce school and other noise sensitive land use disruptions. |
| SC-N-6 | Vibration (Structural Damage) | Rock blasting or demolition activities | During construction | The LAUSD shall require the construction contractor to minimize blasting for all construction and demolition activities, where feasible. If demolition is necessary adjacent to residential uses or fragile structures, the LAUSD shall require the construction contractor to avoid using impact tools. Alternatives that shall be considered include mechanical methods using hydraulic crushers or deconstruction techniques. |
| SC-N-7 | Vibration (Structural Damage) | Pile driving or heavy vibration activities | During construction<br>(Construction) | For projects where pile driving activities are required within 150 feet of a structure, a detailed vibration assessment shall be provided by an acoustical engineer to analyze potential impacts related to vibration to nearby structures and to determine feasible mitigation measures to eliminate potential risk of architectural damage. |
| SC-N-8 | Vibration (Structural Damage) | Vibration intensive activities are planned within 25 feet of a historic building or structure | Prior to and during demolition and construction<br>(Construction) | LAUSD shall meet with the construction contractor to discuss alternative methods of demolition and construction for activities within 25 feet of a historic building to reduce vibration impacts. During the preconstruction meeting, the construction contractor shall identify demolition methods not involving vibration-intensive construction equipment or activities. For example: sawing into sections that can be loaded onto trucks results in lower vibration levels than demolition by hydraulic hammers.<br>• Prior to construction activities, the construction contractor shall inspect and report on the current foundation and structural condition of the historic building.<br>• The construction contractor shall implement alternative methods identified in the preconstruction meeting during demolition, excavation, and construction for work done within 25 feet of the historic building.<br>• The construction contractor shall avoid use of vibratory rollers and packers adjacent to a historic building.<br>• During demolition the construction contractor shall not phase any ground-impacting operations near a historic building to occur at the same time as any ground impacting operation associated with demolition and construction of a new building.<br>During demolition and construction, if any vibration levels cause cosmetic or structural damage to a historic building the District shall issue “stop-work” orders to the construction contractor immediately to prevent further damage. Work shall not restart until the building is stabilized and/or preventive measures to relieve further damage to the building are implemented. |
| SC-N-9 | Construction Noise | Exterior construction and the use of large, heavy or noisy construction equipment | During construction<br>(Construction) | LAUSD shall prepare a noise assessment.<br>If site-specific review of a school construction Project identifies potentially significant adverse construction noise impacts, then LAUSD shall implement all feasible measures to reduce below applicable noise ordinances. Exterior construction noise levels exceed local noise standards, policies, or ordinances at noise-sensitive receptors. LAUSD shall mandate that construction bid contracts include the measures identified in the noise assessment. Specific noise reduction measures include, but are not limited to, the following:<br><u>Source Controls</u><br>• Time Constraints – prohibiting work during sensitive nighttime hours<br>• Scheduling – performing noisy work during less sensitive time periods (on operating campus: delay the loudest noise generation until class instruction at the nearest classrooms has ended; residential: only between 7:00 AM and 7:00 PM) |

| Reference Number | Topic | Trigger for Compliance | Implementation Phase | Standard Conditions |
|---|---|---|---|---|
| | | | | • Equipment Restrictions – restricting the type of equipment used<br>• Noise Restrictions – specifying stringent noise limits<br>• Substitute Methods – using quieter methods and/or equipment<br>• Exhaust Mufflers – ensuring equipment have quality mufflers installed<br>• Lubrication & Maintenance – well maintained equipment is quieter<br>• Reduced Power Operation – use only necessary size and power<br>• Limit Equipment On-Site – only have necessary equipment on-site<br>• Noise Compliance Monitoring – technician on site to ensure compliance<br>• Quieter Backup Alarms – manually-adjustable or ambient sensitive types<br><u>Path Controls</u><br>• Noise Barriers – semi-permanent or portable wooden or concrete barriers<br>• Noise Curtains – flexible intervening curtain systems hung from supports<br>• Enclosures – encasing localized and stationary noise sources<br>• Increased Distance – perform noisy activities farther away from receptors, including operation of portable equipment, storage and maintenance of equipment<br><u>Receptor Controls</u><br>• Window Treatments – reinforcing the building's noise reduction ability<br>• Community Participation – open dialog to involve affected residents<br>• Noise Complaint Process – ability to log and respond to noise complaints. Advance notice of the start of construction shall be delivered to all noise sensitive receptors adjacent to the Project area. The notice shall state specifically where and when construction activities will occur, and provide contact information for filing noise complaints with the contractor and the District. In the event of noise complaints, the LAUSD shall monitor noise from the construction activity to ensure that construction noise does not exceed limits specified in the noise ordinance.<br>• Temporary Relocation – in extreme otherwise unmitigatable cases. Temporarily move residents or students to facilities away from the construction activity. |
| SC-AQ-2 | Construction Noise | Requires large construction equipment | During Project construction | LAUSD's construction contractor shall ensure that construction equipment is properly tuned and maintained in accordance with manufacturer's specifications, to ensure excessive noise is not generated by unmaintained equipment. |

SOURCE: LAUSD PEIR 2014

# 3. Significance Thresholds

Pursuant to Appendix G of the State *CEQA Guidelines*, the Project would result in a significant impact related to noise and vibration if it would:

a) Result in exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies.

b) Result in exposure of persons to or generation of excessive ground-borne vibration or ground-borne noise levels.

c) Result in a substantial permanent increase in ambient noise levels in the Project vicinity above levels existing without the Project.

d) Result in substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project.

e) For a Project located within an airport land use plan or where such a plan has not been adopted, within two miles of a public airport or public use airport, expose people residing or working in the Project area to excessive noise levels.

f) For a project within the vicinity of a private airstrip, expose people residing or working in the Project area to excessive noise levels.

## 3.1 City of Los Angeles

### 3.1.1 Operational Traffic Noise

A project would have a long-term operational noise impact if noise levels from project operations cause the ambient noise levels at the property line of affected uses to increase by 3 dBA CNEL, and noise levels reach, or are within the "normally unacceptable," or "clearly unacceptable" category, or increase by 5 dBA CNEL, or greater.

### 3.1.2 Operational Stationary Noise

Stationary noise sources are prohibited from causing the ambient noise level to increase by more than 5 dBA $L_{eq}$.

### 3.1.3 Construction Noise

Project construction-related activities would result in a significant noise impact at nearby sensitive uses if:

- Construction-related noise levels exceed 75 dBA $L_{eq}$ measured at a distance of 50 feet from equipment when construction activities are located within 500 feet of a residential area unless technically feasible mitigation measures are incorporated;
- Construction activities lasting more than 1 day would exceed existing ambient exterior noise levels by 10 dBA $L_{eq}$ or more, at a noise sensitive use;

- Construction activities lasting more than 10 days in a 3-month period would exceed existing ambient exterior noise levels by 5 dBA $L_{eq}$, or more, at a noise sensitive use; or
- Construction activities would exceed the ambient noise level by 5 dBA $L_{eq}$ at a noise sensitive use between the hours of 9:00 p.m. and 7:00 a.m. Monday through Friday, before 8:00 a.m., or after 6:00 p.m., on Saturday, or on a national holiday, or at any time on Sunday.

## 3.2 Los Angeles Unified School District

The Program EIR outlines the following LAUSD noise level thresholds for school sites according to Education Code Section 17215. The Project would result in a significant long-term noise impact if:

- Exterior noise levels exceed 67 dBA $L_{eq}$;
- Interior classroom noise levels exceed 45 dBA $L_{eq}$; or
- Permanent increase noise levels at nearby noise-sensitive land uses exceed 3 dBA CNEL

## 3.3 Vibration Criteria

The *CEQA Guidelines* do not define the levels at which groundborne vibration or groundborne noises are considered "excessive." The City of Los Angeles currently does not have a significance threshold to assess vibration impacts during construction. However, the FTA has provided guidance for the analysis of vibration from transportation and construction-induced vibration sources. The Project is not subject to FTA, or Caltrans regulations; nonetheless, the FTA guidance serve as a useful tool to evaluate vibration impacts. For the purpose of this analysis, the vibration criteria for human annoyance and structural damage established by the FTA, which are shown previously in Table 4 and Table 5, respectively, are used to evaluate the potential vibration impacts of the Project on nearby sensitive receptors.

# 4. Methodology

## 4.1 Construction Noise Levels

### 4.1.1 Onsite Construction Noise Levels

Project construction noise levels were estimated using the FHWA's Roadway Construction Noise Model (RCNM) and construction equipment information provided by the LAUSD. Predicted noise levels were identified for the nearest sensitive receptors, as well as for classrooms on campus, based on their respective distances from the construction equipment. To present a conservative impact analysis, the estimated noise levels were calculated for a scenario in which the loudest equipment were assumed to be located at the construction area boundary closest to sensitive receptors. The remaining construction equipment were assumed to be located at the approximate mid-point within the construction area boundary and at the furthest point within the construction area boundary relative to the sensitive receptor. These assumptions represent a reasonable worst-case noise scenario since the loudest construction equipment were assumed to

be located closest to sensitive receptors. In reality, construction equipment operates throughout a construction area, and the loudest construction equipment would not always be located at the nearest distance to sensitive receptors, but would typically be active throughout the Project site, and would routinely be located further away from the affected sensitive receptors. The construction noise levels were calculated, in terms of maximum hourly $L_{eq}$, for sensitive receptor locations based on the standard point source noise-distance attenuation factor of 6.0 dBA for each doubling of distance. The estimated noise levels at the affected receptors were then analyzed against the construction noise standards established in Section 3.0. Detailed noise calculations are provided in **Appendix A**.

### 4.1.2 Offsite Construction Traffic Noise Levels

Roadway noise impacts were evaluated using the Caltrans Technical Noise Supplement (TeNS) method based on the estimated maximum number of on-road haul trucks. This method allows for the definition of roadway configurations, barrier information (if any), and receiver locations. Roadway noise attributable to Project development was calculated and compared to baseline noise levels shown in Table 3.

## 4.2 Operational Noise Levels

### 4.2.1 Onsite Stationary Source Noise Levels

During operation of the Project, noise levels would be generated on-site by stationary noise sources, such as generators and air conditioning units, and student activities. The noise levels generated by the stationary noise sources are not assessed because the locations and specifications of equipment would not be available at this stage of the proposed Project. Instead, a qualitative assessment is used and the applicable SCs from the Program EIR are incorporated.

## 4.3 Groundborne Vibration Levels

Groundborne vibration levels resulting from construction activities at the Project site were estimated using data in the FTA *Transit Noise and Vibration Impact Assessment* guidance document.[31] Potential vibration levels resulting from construction of the Project are identified for offsite locations that are sensitive to vibration (i.e., existing residential buildings) based on their distance from construction activities, as well as classrooms on campus.

[31] FTA, *Transit Noise and Vibration Impact Assessment*. May 2006.

# 5. Environmental Impacts

## 5.1 Noise Levels in Excess of Standards

**Impact 1: The Project would not result in the exposure of persons to, or generation of, noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies. (Less than Significant Impact)**

### 5.1.1 Construction Noise

#### *Onsite Construction*

Construction of the proposed Project would occur in 3 phases over a 3-year construction phasing schedule. The construction schedule includes overlap between phases with the most intensive activity occurring during summer break when school is not in session. All construction would occur during daytime hours, specifically 7:00 a.m. to 7:00 p.m. Monday through Friday. Construction is anticipated to begin in the first quarter of 2020 and to be completed in the first quarter of 2023.

Construction activities occurring during each of these phases would require the use of heavy equipment (e.g., excavators, backhoes, loaders, tractors, etc.) along with the use of smaller power tools, generators, and other sources of noise. During each construction phase there would be a different mix of equipment operating and noise levels would vary based on the amount of equipment in operation and the location of each activity. As such, construction activity noise levels during each phase would fluctuate depending on the particular type, number, and duration of use of the various pieces of construction equipment.

**Table 8** *Construction Equipment Usage and Noise Levels*, lists the type, maximum noise level, quantity, usage factor, and estimated noise levels of construction equipment to be used for each phase of construction. It should be noted that maximum noise levels associated with construction equipment would only be generated when the equipment is operated at full power. Typically, the operating cycle for a piece of construction equipment would involve one, or two, minutes of full power operation followed by three, or four, minutes at lower power settings. As such, the maximum noise levels shown in Table 8 would occur occasionally throughout the construction day.

As discussed previously, the Project site is bounded by West 14th Street and West 15th Street to the north, South Leland Street to the west, West 17th Street to the south, and Dana Middle School to the east. Noise-sensitive receptors to the north, south, and west of the Project site consist of residential uses, located approximately 70 feet, 100 feet, and 100 feet from the nearest construction activity, respectively. The closest receptors to the east of the Project site are Dana Middle School, located approximately 350 feet from the nearest construction activity. To present a conservative impact analysis, the estimated noise levels were calculated for a scenario in which the loudest equipment were assumed to be located at the construction area boundary closest to sensitive receptors. The remaining construction equipment were assumed to be located at the

approximate mid-point within the construction area boundary and at the furthest point within the construction area boundary relative to the sensitive receptor.

**TABLE 8**
**CONSTRUCTION EQUIPMENT USAGE AND NOISE LEVELS**

| Activity and Equipment | Maximum Noise Level at 50 feet (dBA) [b] | Equipment Quantity (per Phase) | Usage Factor [b] |
|---|---|---|---|
| **Demolition** | | | |
| Excavator | 81 | 1 | 40% |
| Other Construction Equipment | 85 | 1 | 50% |
| Rubber Tired Dozer | 82 | 1 | 40% |
| Crushing Equipment | 84 | 1 | 10% |
| Concrete Saw | 90 | 1 | 20% |
| **Grading/Modernization** | | | |
| Tractors/Loaders/Backhoes | 80 | 1 | 25% |
| Rubber Tired Dozer | 82 | 1 | 40% |
| **Construction (Interim Housing/Portables)** | | | |
| Forklift | 75 | 1 | 10% |
| Crane | 81 | 1 | 40% |
| Generator Sets | 81 | 1 | 50% |
| Tractors/Loaders/Backhoes | 80 | 1 | 25% |
| Welder | 74 | 1 | 40% |
| **Architectural Coating** | | | |
| Air Compressor | 78 | 1 | 50% |
| **Paving** | | | |
| Paver | 77 | 2 | 50% |
| Roller | 80 | 2 | 20% |
| Paving Equipment | 90 | 2 | 20% |

[a] Maximum Noise Levels and Usage Factor are derived from Federal Highway Administration's (FHWA) Roadway Construction Noise Model User's Guide. Noise levels for those equipment not included in this User's Guide are estimated based on similar equipment.

SOURCE: LAUSD 2016, ESA 2017

Distances between the closest construction site and the receptors with estimated noise levels per construction phase are presented in **Table 9** *Estimated Construction Noise Levels at Sensitive Receptors*. Calculated noise levels take into consideration noise shielding provided by existing buildings. However, any noise shielding provided by existing screening walls, or landscaping (such as trees), has not been considered. Vegetation can achieve reductions in noise if it is high enough, wide enough, and dense enough so that it cannot be seen over, or through.[32] Although trees currently line the boundaries of the school site, the height, width, and density of the vegetation is not sufficient to block the line-of-sight between the campus and the public right-of-

[32] Federal High way Administration. Noise Barrier Design. https://www.fhwa.dot.gov/environment/noise/noise_barriers/design_construction/keepdown.cfm. Accessed December 2017

way. Therefore, it is assumed that existing vegetation would not provide any noise shielding from onsite construction activity.

**TABLE 9**
**ESTIMATED CONSTRUCTION NOISE LEVELS AT SENSITIVE RECEPTORS**

| Receptor | Estimated Closest Distance (feet) [1] | Existing Ambient Noise Level (dBA $L_{eq}$)[2] | Threshold (dBA $L_{eq}$) [3] | Estimated Hourly Noise Levels (dBA $L_{eq}$) | Reduced Hourly Noise Levels (dBA $L_{eq}$) [4] | Exceeds Threshold? |
|---|---|---|---|---|---|---|
| R1 | 70 | 53 | 58 | 75 | 52 | No |
| R2 | 80 | 54 | 59 | 76 | 53 | No |
| R3 | 80 | 51 | 56 | 77 | 54 | No |
| R4 | 100 | 54 | 59 | 75 | 52 | No |
| R5 | 100 | 54 | 59 | 76 | 53 | No |
| Onsite Classrooms | 25 | -- | 67 | 87 | 64 | No |
| Dana Middle School | 350 | -- | 67 | 59 | -- | No |

NOTE: See Appendix A for detailed construction noise calculations.

1 Distances shown represent the distance of the nearest construction activity to each receptor. Noise modeling accounted for equipment placed at the approximated closest, midpoint, and furthest points of the phase area.
2 Ambient noise was not measured onsite at San Pedro High School or at Dana Middle School.
3 Threshold for residential receptors +5 dBA over measured existing ambient noise level (see Table 3). Exterior Threshold for San Pedro High School and Dana Middle School 67 dBA as established in the LAUSD SUP PEIR per Education Code Section 17215.
4 Assumes implementation of noise control measures: exhaust mufflers (- 3dBA) and sound barrier (-20 dBA).

SOURCE: ESA 2017

Noise impacts are considered potentially significant when construction noise levels exceed the ambient noise levels by 5 dBA, or more (see Table 3). Pursuant to Education Code Section 17215 and the LAUSD SUP Program EIR, the exterior noise significance threshold for school sites is 67 dBA. As shown in Table 9, estimated construction noise levels would potentially exceed the applicable significance thresholds at all studied residential receptors and onsite classrooms. Therefore, the impact would be considered potentially significant before implementation of Program EIR SCs.

The proposed Project requires compliance with the Program EIR SCs, as shown in Table 7. SC-N-9 requires site-specific noise control measures to be implemented during construction. Such measures include installation of exhaust mufflers, proper maintenance of construction equipment, and the use of noise barriers. Absorptive noise mufflers are commercially available and can feasibly reduce noise emitted by heavy-duty construction equipment.[33] The City of Los Angeles recognizes that the use of mufflers can achieve noise reductions of up to 3 dBA.[34] In addition, installation of a temporary 15-foot high noise barrier with acoustical blankets with a minimum sound transmission class (STC) of 25 and noise reduction coefficient (NRC) of 0.75 can reduce noise levels by up to

33 United Muffler Corp, https://www.unitedmuffler.com/; Auto-jet Muffler Corp, http://mandrelbending-tubefabrication.com/index.php; AP Exhaust Technologies, http://www.apexhaust.com/.

34 City of Los Angeles, L.A. CEQA Thresholds Guide, Your Resource for Preparing CEQA Analyses in Los Angeles, Exhibit I.1-2, (2006).

20 dBA. Therefore, it is estimated that implementation of the Program EIR SCs would reduce Project-related construction noise by a total of 23 dBA.

As shown in Table 9, construction noise levels would be reduced to acceptable levels after implementation of the Standard Conditions identified above. Therefore, impacts would be less than significant, and no mitigation, or further study, is required.

### *Offsite Construction Traffic Noise*

Construction-related vehicular traffic including hauling activities would generate higher noise levels to the receptors along the access routes (i.e., West 17th Street, South Leland Street, West 15th Street, and West 14th Street). The maximum number of haul trucks accessing the Project site each day for the Soil Removal Phase would be 50 trucks, a total of 100 one-way trips. Assuming that 10 percent of daily trips would occur during the peak hour, 10 truck trips would occur during the peak hour.

**Table 10** *On-Road Construction Traffic Noise Levels* summarizes anticipated construction traffic noise levels during the soil removal phase of construction. As shown in Table 10, noise level increases by truck trips would be below the significance threshold of a 5 dBA increase over existing ambient levels. Therefore, offsite construction traffic noise impacts would be less than significant. No mitigation, or further study, is required.

**TABLE 10**
**ON-ROAD CONSTRUCTION TRAFFIC NOISE LEVELS**

| | | | | Leq (dBA) | |
|---|---|---|---|---|---|
| **Roadway Segment (Receptor)** | **Modeled Distance (feet)[1]** | **Existing Ambient[2]** | **Threshold[3]** | **Project Haul Truck Noise** | **Exceed Threshold?** |
| 14th Street (R1) | 40 | 53 | 58 | 56 | No |
| Alma Street (R2) | 50 | 54 | 59 | 55 | No |
| 15th Street (R3) | 45 | 51 | 56 | 56 | No |
| Leland Street (R4) | 50 | 54 | 59 | 55 | No |
| 17th Street (R5) | 30 | 54 | 59 | 58 | No |

NOTE: See Appendix A.

1. Calculated distance for each roadway segment is based on the distance of the nearest receptor property line to the roadway centerline.
2. See Table 3
3. Existing Ambient +5 dBA

SOURCE: ESA, 2017.

## 5.1.2 Operational Noise

The Project would result in potentially significant impacts if there is a permanent increase of over 3 dBA in ambient noise levels within the Project vicinity above existing levels without the Project. To increase the future ambient noise by 3 dBA, in general, it would be necessary to

double the number of students, double the school activities over existing conditions, or double the traffic volumes. Project implementation would not provide for an increase in the number of students attending the school, staff required to operate the school, or traffic volumes.

New structures would include stationary noise sources, such as a generator or air conditioning units. Although the Project would result in the installation of new mechanical equipment, the operation of older mechanical equipment currently occurs on the campus. Therefore, no change in sources of stationary noise would occur due to the Project. Further, the proposed Project would comply with SC-N-2, which requires the purchase of the lowest noise-producing HVAC units emitting noise levels no greater than 50 dBA and SC-N-4, which requires that noise attenuation measures be incorporated to minimize permanent increases in ambient noise to less than 3 dBA, impacts would be less than significant.

## 5.2 Ground-Borne Vibration

**Impact 2: The Project would not expose persons to, or generate, excessive ground-borne vibration or ground-borne noise levels. (Less than Significant Impact with Mitigation)**

Ground-borne vibration would be generated from the operation of heavy construction equipment at the Project site, which could potentially affect the existing sensitive land uses surrounding the site, as well as the students on campus.

Construction equipment could be close to the residential structures in the Project vicinity. However, it should be noted that the existing structures on campus would be closer than those residential structures. The construction equipment could be as close as 10 feet from existing onsite structures.

Ground-borne vibration levels resulting from construction activities at the Project site were estimated using data published by the Federal Transit Administration (FTA) in its Transit Noise and Vibration Impact Assessment (2006) document. The Program EIR has adopted vibration standards that are used to evaluate potential human annoyance and architectural damage impacts related to construction activities, which are shown in Table 4 and Table 5, respectively.

The various PPV and VdB levels for the general construction equipment that would operate during the construction of the proposed Project are identified in **Table 11**. Note that pile driving would not be required for the proposed Project.

**TABLE 11**
**VIBRATION SOURCE LEVELS FOR CONSTRUCTION EQUIPMENT**

| Equipment | Approximate PPV (in/sec) at 25 feet | Approximate RMS (VdB) at 25 feet |
|---|---|---|
| Large Bulldozer | 0.089 | 87 |
| Loaded Trucks | 0.076 | 86 |
| Jackhammer | 0.035 | 79 |
| Small Bulldozer | 0.003 | 58 |

SOURCE: FTA, 2006.

### *Structural Damage*

Construction activities associated with the proposed Project would have the potential to impact the existing school buildings and surrounding offsite structures. For existing school buildings, the construction equipment could be located within 15 feet of structures, which would result in a significant impact. Although the proposed Project would require compliance with SC-N-6 through SC-N-8, impacts would not be reduced to less than significant. Therefore, impacts would be potentially significant and mitigation would be required.

The offsite structures are considered to be non-engineered timber structures. The vibration impact threshold for the offsite structures would be 0.2 in/sec PPV. The PPV level of a large bulldozer at 25 feet would be 0.089 in/sec PPV. In order to exceed 0.2 in/sec PPV, a large bulldozer needs to be as close as 15 feet from the offsite structures. The closest offsite structure to the Project site is located greater than 50 feet away. Therefore, Project-related vibration levels of 0.2 in/sec PPV, or greater, would not be experienced at offsite structures and impacts would be less than significant. No mitigation, or further study, is required.

### *Human Annoyance*

Construction-related vibration could annoy people within a nearby building. The vibration impact threshold for human annoyance at a residential structure is 78 VdB. In order to exceed 78 VdB, a large bulldozer would need to be located as close as 50 feet from the structures. As stated above, the nearest residential structures are located greater than 50 feet from the Project site. Therefore, Project-related vibration levels of 78 VdB, or greater, would not be experienced at offsite structures and impacts would be less than significant. No mitigation nor further study is required.

Construction-related vibration could cause annoyance to on-site students while class is in session. The vibration impact threshold for human annoyance within classrooms is 84 VdB, considering

the sensitivity would be similar to an office environment as presented in Table 4. In order to exceed 84 VdB, a large bulldozer would need to be located as close as 30 feet from classrooms. Given the configuration of the Project site, it would be possible for construction equipment to be within 30 feet from classrooms, therefore this impact would be considered potentially significant. Although the proposed Project would require compliance with SC-N-5, impacts would not be reduced to less-than-significant levels and mitigation would be required.

### *Operation*

Once construction activities have been completed, there would be no sources of vibration at the Project site. Therefore, no impact would occur.

### *Mitigation Measures*

The following mitigation measure is proposed to reduce impacts related to structural damage during construction:

> **NOISE-1:** To avoid structural damage, when the construction equipment is within 15 feet of existing school buildings, large construction equipment (greater than 300 horsepower), such as large bulldozer and loaded trucks, should be replaced with smaller equipment (less than 300 horsepower) when feasible.

The following mitigation measure is proposed to reduce impacts related to human annoyance:

> **NOISE-2**: In the event that construction activity would occur within 30 feet of classrooms, large construction equipment (greater than 300 horsepower), such as large bulldozer and loaded trucks, should be replaced with smaller equipment (less than 300 horsepower) when feasible.

### *Significance after Mitigation*

After implementation of Mitigation Measure NOISE-1, impacts related to structural damage by vibration would be less than significant. This is vibrational energy from smaller construction equipment (less than 300 horsepower) at distances within 15 feet would be below the threshold of 0.2 in/sec.

After implementation of Mitigation Measure NOISE-2, impacts related to human annoyance from vibration would be less than significant. This is because smaller construction equipment (less than 300 horsepower), at distances within 30 feet of classrooms, would generate vibrational velocity levels that would not trigger human annoyance. For instance, a small bulldozer, at a distance of 25 feet, would generate vibration velocity levels of approximately 58 (VdB), which is below the ground-borne vibration criteria regarding human annoyance of 84 (VdB).

## 5.3 Permanent Increase in Ambient Noise Levels

**Impact 3: The Project would not result in a substantial permanent increase in ambient noise levels in the Project vicinity above levels existing without the Project. (Less than Significant)**

As previously described in the discussion for Impact 1, the proposed Project would not result in a 3 dBA increase in noise over existing ambient conditions. This impact would be less than significant, and no mitigation, or further study, is required.

## 5.4 Temporary Increase in Ambient Noise Levels

**Impact 4: The Project would not result in a substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project. (Less than Significant)**

As previously described in the discussion for Impact 1, the proposed Project would be expected to result in temporary increases in ambient noise levels during construction. However, implementation of SC-N-9 would reduce noise levels at neighboring residential receptors as well as onsite classrooms, not exceeding a 5 dBA increase over ambient levels. Impacts would be less than significant, and no mitigation, or further study is required.

## 5.5 Airport-related Excessive Noise Levels

**Impact 5: The Project is not located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, thus, the Project would not expose people residing or working in the Project area to excessive noise levels. (No Impact)**

The proposed Project is not located within an airport land use plan or within 2 miles of a public airport or public use airport. The nearest public airport (Torrance Municipal Airport) is approximately 4.5 miles northwest of the Project site. Therefore, no airport land use plan-related impacts would occur. No mitigation or further study is required.

**Impact 6: The Project is not within the vicinity of a private airstrip, thus, the Project would not expose people residing or working in the Project area to excessive noise levels. (No Impact)**

There is no private airstrip within 10 miles of the Project site. Therefore, no airstrip-related noise impacts would occur. No mitigation or further study is required.

# 6. Cumulative Impacts

As an active school campus, San Pedro HS is anticipated to have ongoing maintenance activities that will occur throughout the campus. However, subsequent projects on the Campus would not have the same scope, or scale, associated with this Project and would generate little or no

construction noise. In addition, the District has more than 22 comprehensive modernization, upgrade, or new development projects planned for campuses located within the District's boundaries but none of these would occur within one mile of the campus. No other construction activities would occur on the Campus, other than activities described and analyzed herein, that would contribute to a cumulative construction noise environment. Additionally, the City of Los Angeles indicates that there are no ongoing or reasonably foreseeable projects that could involve concurrent construction activities within the San Pedro Community Area. Therefore, since the 2006 City of Los Angeles CEQA Thresholds Guide (LA CEQA Thresholds Guide) establishes the screening criterion of 500 feet for noise sensitive uses, the cumulative construction and operational noise and vibration impacts would be less than significant.

# 7. Summary of Results

Construction noise and vibration levels associated with the Project would not exceed the significance threshold at the off-site and on-site sensitive receptors with the implementation of mitigation measures as well as complying with the Program EIR Standard Conditions. Therefore, construction noise and vibration impacts would be less than significant.

Operation of the Project would not expose persons to, or generate noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies with the compliance of the Program EIR Standard Conditions. Therefore, operation noise impacts would be less than significant.

As discussed above, Project construction and operation would not result in a substantial temporary or permanent increase in ambient noise and vibration levels at offsite sensitive receptor locations. Therefore, impacts would be less than significant.

# 8. References

California Code of Regulations, Title 5. Education, Division 1. California Department of Education, Chapter 13. School Facilities and Equipment, Subchapter 1. School Housing, Article 2. School Sites, 14010. Standards for School Site Selection. Available: https://govt.westlaw.com/calregs/Document/I8037DA60D48011DEBC02831C6D6C108E?viewType=FullText&originationContext=documenttoc&transitionType=CategoryPageItem&contextData=(sc.Default). Accessed September 2017.

California Code of Regulations, Title 14, Section 15168(c).

California Department of Transportation (Caltrans), *Technical Noise Supplement* (TeNS). September, 2013.

City of Los Angeles, 2006 LA CEQA Thresholds Guide: Your Resource for Preparing CEQA Analyses in Los Angeles, Section I.2, 2006

City of Los Angeles Municipal Code, Chapter XI, Noise Regulation, Article I, Section 111.02-(b).

City of Los Angeles, Municipal Code, Chapter XI, Noise Regulation, Section 112.02

Federal Highway Administration, Roadway Construction Noise Model User's Guide, 2006.

FTA, 2006. Transit Noise and Vibration Impact Assessment. May 2006.

Los Angeles Unified School District. July 28, 2015. Character-Defining Features Memorandum (CDFM) for San Pedro High School, 1319 East 41st Street, Los Angeles, California 90011. Los Angeles, CA.

Los Angeles Unified School District, Board of Education. Regular Board Meeting -November 10, 2015. http://laschoolboard.org/11-10-15RegBd.

Los Angeles Unified School District. January 2015. Los Angeles Unified School District Design Guidelines and Treatment Approaches for Historic Schools. Los Angeles, CA.

Los Angeles Unified School District. 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.

USEPA, *EPA Identifies Noise Levels Affecting Health and Welfare*. April 1974.

# APPENDIX A
# Noise Measurements

## Summary

| | |
|---|---|
| **File Name on Meter** | LxT_Data.100 |
| **File Name on PC** | SLM_0004983_LxT_Data_100.00.ldbin |
| **Serial Number** | 0004983 |
| **Model** | SoundTrack LxT® |
| **Firmware Version** | 2.301 |
| **User** | |
| **Location** | R1 |
| **Job Description** | |
| **Note** | |

## Measurement

| | |
|---|---|
| **Description** | |
| **Start** | 2017-12-22 08:59:17 |
| **Stop** | 2017-12-22 09:14:17 |
| **Duration** | 00:15:00.0 |
| **Run Time** | 00:15:00.0 |
| **Pause** | 00:00:00.0 |
| | |
| **Pre Calibration** | 2017-12-22 08:15:32 |
| **Post Calibration** | None |
| **Calibration Deviation** | --- |

## Overall Settings

| | |
|---|---|
| **RMS Weight** | A Weighting |
| **Peak Weight** | A Weighting |
| **Detector** | Slow |
| **Preamp** | PRMLxT1 |
| **Microphone Correction** | Off |
| **Integration Method** | Exponential |
| **Overload** | 145.0 dB |

| | A | C | Z |
|---|---|---|---|
| **Under Range Peak** | **101.2** | 98.2 | 103.2 dB |
| **Under Range Limit** | **37.6** | 35.6 | 43.6 dB |
| **Noise Floor** | 24.8 | 25.3 | 32.8 dB |

## Results

| | | |
|---|---|---|
| **$LA_{Seq}$** | 52.5 dB | |
| **LASE** | 82.0 dB | |
| **EAS** | 17.616 µPa²h | |
| **EAS8** | 563.716 µPa²h | |
| **EAS40** | 2.819 mPa²h | |
| **$LA_{Speak\ (max)}$** | 2017-12-22 09:02:14 | 85.2 dB |
| **$LA_{Smax}$** | 2017-12-22 09:12:30 | 67.0 dB |
| **$LA_{Smin}$** | 2017-12-22 09:11:26 | 41.7 dB |
| **SEA** | -99.9 dB | |
| | | |
| **LAS > 85.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |
| **LAS > 115.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |
| **$LA_{Speak}$ > 135.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |
| **$LA_{Speak}$ > 137.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |
| **$LA_{Speak}$ > 140.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |
| | | |
| **$LC_{Seq}$** | 64.1 dB | |
| **$LA_{Seq}$** | 52.5 dB | |
| **$LC_{Seq}$ - $LA_{Seq}$** | 11.6 dB | |
| **$LAI_{eq}$** | 55.0 dB | |
| **$LA_{eq}$** | 52.5 dB | |
| **$LAI_{eq}$ - $LA_{eq}$** | 2.6 dB | |

| | A | | C | | Z | |
|---|---|---|---|---|---|---|
| | **dB** | **Time Stamp** | **dB** | **Time Stamp** | **dB** | **Time Stamp** |
| **$L_{eq}$** | 52.5 | | | | | |
| **$L_{S(max)}$** | 67.0 | 2017/12/22 9:12:30 | | | | |
| **$L_{S(min)}$** | 41.7 | 2017/12/22 9:11:26 | | | | |
| **$L_{Peak(max)}$** | 85.2 | 2017/12/22 9:02:14 | | | | |

| | | |
|---|---|---|
| **# Overloads** | 0 | |
| **Overload Duration** | 0.0 | s |

## Dose Settings

| | | | |
|---|---|---|---|
| **Dose Name** | OSHA-1 | OSHA-2 | |
| **Exchange Rate** | 5 | 5 | dB |
| **Threshold** | 90 | 80 | dB |
| **Criterion Level** | 90 | 90 | dB |
| **Criterion Duration** | 8 | 8 | h |

## Results

| | | | |
|---|---|---|---|
| **Dose** | -99.9 | -99.9 | % |
| **Projected Dose** | -99.9 | -99.9 | % |
| **TWA (Projected)** | -99.9 | -99.9 | dB |
| **TWA (t)** | -99.9 | -99.9 | dB |
| **Lep (t)** | 37.4 | 37.4 | dB |

## Statistics

| | | |
|---|---|---|
| **LAS5.00** | 56.5 | dB |
| **LAS10.00** | 54.8 | dB |
| **LAS33.30** | 51.5 | dB |
| **LAS50.00** | 49.5 | dB |
| **LAS66.60** | 47.7 | dB |
| **LAS90.00** | 44.4 | dB |

## Calibration History

| **Preamp** | **Date** | **dB re. 1V/Pa** | **6.3** | **8.0** | **10.0** |
|---|---|---|---|---|---|
| **PRMLxT1** | 2017-12-22 08:15:32 | -51.2 | | | |
| **PRMLxT1** | 2017-12-20 08:14:40 | -51.3 | | | |
| **PRMLxT1** | 2017-12-20 08:14:24 | -51.3 | | | |
| **PRMLxT1** | 2017-12-14 11:51:06 | -51.1 | | | |
| **PRMLxT1** | 2017-12-14 08:29:13 | -51.2 | | | |
| **PRMLxT1** | 2017-12-13 08:48:37 | -51.2 | | | |
| **PRMLxT1** | 2017-12-12 13:29:17 | -51.1 | | | |
| **PRMLxT1** | 2017-11-29 09:25:09 | -51.2 | | | |
| **PRMLxT1** | 2017-11-29 09:24:53 | -51.2 | | | |
| **PRMLxT1** | 2017-11-21 09:22:04 | -53.4 | | | |
| **PRMLxT1** | 2017-11-02 09:20:08 | -53.7 | | | |

## Summary

| | |
|---|---|
| **File Name on Meter** | LxT_Data.103 |
| **File Name on PC** | SLM_0004983_LxT_Data_103.00.ldbin |
| **Serial Number** | 0004983 |
| **Model** | SoundTrack LxT® |
| **Firmware Version** | 2.301 |
| **User** | |
| **Location** | R2 |
| **Job Description** | |
| **Note** | |

## Measurement

| | |
|---|---|
| **Description** | |
| **Start** | 2017-12-22 09:55:10 |
| **Stop** | 2017-12-22 10:10:10 |
| **Duration** | 00:15:00.0 |
| **Run Time** | 00:15:00.0 |
| **Pause** | 00:00:00.0 |
| | |
| **Pre Calibration** | 2017-12-22 08:15:32 |
| **Post Calibration** | None |
| **Calibration Deviation** | --- |

## Overall Settings

| | |
|---|---|
| **RMS Weight** | A Weighting |
| **Peak Weight** | A Weighting |
| **Detector** | Slow |
| **Preamp** | PRMLxT1 |
| **Microphone Correction** | Off |
| **Integration Method** | Exponential |
| **Overload** | 145.0 dB |

| | **A** | **C** | **Z** |
|---|---|---|---|
| **Under Range Peak** | **101.2** | 98.2 | 103.2 dB |
| **Under Range Limit** | **37.6** | 35.6 | 43.6 dB |
| **Noise Floor** | 24.8 | 25.3 | 32.8 dB |

## Results

| | | |
|---|---|---|
| **$L_{ASeq}$** | 53.5 dB | |
| **LASE** | 83.0 dB | |
| **EAS** | 22.356 µPa²h | |
| **EAS8** | 715.402 µPa²h | |
| **EAS40** | 3.577 mPa²h | |
| **$L_{ASpeak\ (max)}$** | 2017-12-22 10:09:58 | 91.7 dB |
| **$L_{ASmax}$** | 2017-12-22 10:05:04 | 64.5 dB |
| **$L_{ASmin}$** | 2017-12-22 09:57:26 | 43.5 dB |
| **SEA** | -99.9 dB | |

| | | |
|---|---|---|
| **LAS > 85.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |
| **LAS > 115.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |
| **$L_{ASpeak}$ > 135.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |
| **$L_{ASpeak}$ > 137.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |
| **$L_{ASpeak}$ > 140.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |

| | |
|---|---|
| **$L_{CSeq}$** | 62.8 dB |
| **$L_{ASeq}$** | 53.5 dB |
| **$L_{CSeq}$ - $L_{ASeq}$** | 9.4 dB |
| **$L_{AIeq}$** | 55.7 dB |
| **$L_{Aeq}$** | 53.5 dB |
| **$L_{AIeq}$ - $L_{Aeq}$** | 2.2 dB |

| | **A** | | **C** | | **Z** | |
|---|---|---|---|---|---|---|
| | **dB** | **Time Stamp** | **dB** | **Time Stamp** | **dB** | **Time Stamp** |
| **$L_{eq}$** | 53.5 | | | | | |
| **$L_{S(max)}$** | 64.5 | 2017/12/22 10:05:04 | | | | |
| **$L_{S(min)}$** | 43.5 | 2017/12/22 9:57:26 | | | | |
| **$L_{Peak(max)}$** | 91.7 | 2017/12/22 10:09:58 | | | | |

| | |
|---|---|
| **# Overloads** | 0 |
| **Overload Duration** | 0.0 s |

| Dose Settings | | | |
|---|---|---|---|
| **Dose Name** | OSHA-1 | OSHA-2 | |
| **Exchange Rate** | 5 | 5 | dB |
| **Threshold** | 90 | 80 | dB |
| **Criterion Level** | 90 | 90 | dB |
| **Criterion Duration** | 8 | 8 | h |

| Results | | | |
|---|---|---|---|
| **Dose** | -99.9 | -99.9 | % |
| **Projected Dose** | -99.9 | -99.9 | % |
| **TWA (Projected)** | -99.9 | -99.9 | dB |
| **TWA (t)** | -99.9 | -99.9 | dB |
| **Lep (t)** | 38.4 | 38.4 | dB |

| Statistics | | |
|---|---|---|
| **LAS5.00** | 58.8 | dB |
| **LAS10.00** | 56.2 | dB |
| **LAS33.30** | 53.0 | dB |
| **LAS50.00** | 51.4 | dB |
| **LAS66.60** | 50.3 | dB |
| **LAS90.00** | 47.8 | dB |

| Calibration History | | | | | |
|---|---|---|---|---|---|
| **Preamp** | **Date** | **dB re. 1V/Pa** | **6.3** | **8.0** | **10.0** |
| **PRMLxT1** | 2017-12-22 08:15:32 | -51.2 | | | |
| **PRMLxT1** | 2017-12-20 08:14:40 | -51.3 | | | |
| **PRMLxT1** | 2017-12-20 08:14:24 | -51.3 | | | |
| **PRMLxT1** | 2017-12-14 11:51:06 | -51.1 | | | |
| **PRMLxT1** | 2017-12-14 08:29:13 | -51.2 | | | |
| **PRMLxT1** | 2017-12-13 08:48:37 | -51.2 | | | |
| **PRMLxT1** | 2017-12-12 13:29:17 | -51.1 | | | |
| **PRMLxT1** | 2017-11-29 09:25:09 | -51.2 | | | |
| **PRMLxT1** | 2017-11-29 09:24:53 | -51.2 | | | |
| **PRMLxT1** | 2017-11-21 09:22:04 | -53.4 | | | |
| **PRMLxT1** | 2017-11-02 09:20:08 | -53.7 | | | |

## Summary

| | |
|---|---|
| **File Name on Meter** | LxT_Data.099 |
| **File Name on PC** | SLM_0004983_LxT_Data_099.00.ldbin |
| **Serial Number** | 0004983 |
| **Model** | SoundTrack LxT® |
| **Firmware Version** | 2.301 |
| **User** | |
| **Location** | R3 |
| **Job Description** | |
| **Note** | |

## Measurement

| | |
|---|---|
| **Description** | |
| **Start** | 2017-12-22 08:36:47 |
| **Stop** | 2017-12-22 08:51:47 |
| **Duration** | 00:15:00.0 |
| **Run Time** | 00:15:00.0 |
| **Pause** | 00:00:00.0 |
| | |
| **Pre Calibration** | 2017-12-22 08:15:32 |
| **Post Calibration** | None |
| **Calibration Deviation** | --- |

## Overall Settings

| | |
|---|---|
| **RMS Weight** | A Weighting |
| **Peak Weight** | A Weighting |
| **Detector** | Slow |
| **Preamp** | PRMLxT1 |
| **Microphone Correction** | Off |
| **Integration Method** | Exponential |
| **Overload** | 145.0 dB |

| | A | C | Z |
|---|---|---|---|
| **Under Range Peak** | **101.2** | 98.2 | 103.2 dB |
| **Under Range Limit** | **37.6** | 35.6 | 43.6 dB |
| **Noise Floor** | 24.8 | 25.3 | 32.8 dB |

## Results

| | | |
|---|---|---|
| **$LA_{Seq}$** | 50.8 dB | |
| **LASE** | 80.3 dB | |
| **EAS** | 11.910 µPa²h | |
| **EAS8** | 381.110 µPa²h | |
| **EAS40** | 1.906 mPa²h | |
| **$LA_{Speak\ (max)}$** | 2017-12-22 08:40:11 | 78.8 dB |
| **$LA_{Smax}$** | 2017-12-22 08:40:08 | 65.8 dB |
| **$LA_{Smin}$** | 2017-12-22 08:49:06 | 40.2 dB |
| **SEA** | -99.9 dB | |
| | | |
| **LAS > 85.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |
| **LAS > 115.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |
| **$LA_{Speak}$ > 135.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |
| **$LA_{Speak}$ > 137.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |
| **$LA_{Speak}$ > 140.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |
| | | |
| **$LC_{Seq}$** | 64.2 dB | |
| **$LA_{Seq}$** | 50.8 dB | |
| **$LC_{Seq}$ - $LA_{Seq}$** | 13.5 dB | |
| **$LA_{Ieq}$** | 52.6 dB | |
| **$LA_{eq}$** | 50.8 dB | |
| **$LA_{Ieq}$ - $LA_{eq}$** | 1.8 dB | |

| | A | | C | | Z | |
|---|---|---|---|---|---|---|
| | **dB** | **Time Stamp** | **dB** | **Time Stamp** | **dB** | **Time Stamp** |
| **$L_{eq}$** | 50.8 | | | | | |
| **$L_{S(max)}$** | 65.8 | 2017/12/22 8:40:08 | | | | |
| **$L_{S(min)}$** | 40.2 | 2017/12/22 8:49:06 | | | | |
| **$L_{Peak(max)}$** | 78.8 | 2017/12/22 8:40:11 | | | | |

| | | |
|---|---|---|
| **# Overloads** | 0 | |
| **Overload Duration** | 0.0 | s |

## Dose Settings

| | | | |
|---|---|---|---|
| **Dose Name** | OSHA-1 | OSHA-2 | |
| **Exchange Rate** | 5 | 5 | dB |
| **Threshold** | 90 | 80 | dB |
| **Criterion Level** | 90 | 90 | dB |
| **Criterion Duration** | 8 | 8 | h |

## Results

| | | | |
|---|---|---|---|
| **Dose** | -99.9 | -99.9 | % |
| **Projected Dose** | -99.9 | -99.9 | % |
| **TWA (Projected)** | -99.9 | -99.9 | dB |
| **TWA (t)** | -99.9 | -99.9 | dB |
| **Lep (t)** | 35.7 | 35.7 | dB |

## Statistics

| | | |
|---|---|---|
| **LAS5.00** | 57.5 | dB |
| **LAS10.00** | 52.9 | dB |
| **LAS33.30** | 46.7 | dB |
| **LAS50.00** | 44.6 | dB |
| **LAS66.60** | 43.3 | dB |
| **LAS90.00** | 41.8 | dB |

## Calibration History

| **Preamp** | **Date** | **dB re. 1V/Pa** | **6.3** | **8.0** | **10.0** |
|---|---|---|---|---|---|
| **PRMLxT1** | 2017-12-22 08:15:32 | -51.2 | | | |
| **PRMLxT1** | 2017-12-20 08:14:40 | -51.3 | | | |
| **PRMLxT1** | 2017-12-20 08:14:24 | -51.3 | | | |
| **PRMLxT1** | 2017-12-14 11:51:06 | -51.1 | | | |
| **PRMLxT1** | 2017-12-14 08:29:13 | -51.2 | | | |
| **PRMLxT1** | 2017-12-13 08:48:37 | -51.2 | | | |
| **PRMLxT1** | 2017-12-12 13:29:17 | -51.1 | | | |
| **PRMLxT1** | 2017-11-29 09:25:09 | -51.2 | | | |
| **PRMLxT1** | 2017-11-29 09:24:53 | -51.2 | | | |
| **PRMLxT1** | 2017-11-21 09:22:04 | -53.4 | | | |
| **PRMLxT1** | 2017-11-02 09:20:08 | -53.7 | | | |

## Summary

| | |
|---|---|
| **File Name on Meter** | LxT_Data.101 |
| **File Name on PC** | SLM_0004983_LxT_Data_101.00.ldbin |
| **Serial Number** | 0004983 |
| **Model** | SoundTrack LxT® |
| **Firmware Version** | 2.301 |
| **User** | |
| **Location** | R4 |
| **Job Description** | |
| **Note** | |

## Measurement

| | |
|---|---|
| **Description** | |
| **Start** | 2017-12-22 09:19:09 |
| **Stop** | 2017-12-22 09:34:09 |
| **Duration** | 00:15:00.0 |
| **Run Time** | 00:15:00.0 |
| **Pause** | 00:00:00.0 |
| | |
| **Pre Calibration** | 2017-12-22 08:15:32 |
| **Post Calibration** | None |
| **Calibration Deviation** | --- |

## Overall Settings

| | |
|---|---|
| **RMS Weight** | A Weighting |
| **Peak Weight** | A Weighting |
| **Detector** | Slow |
| **Preamp** | PRMLxT1 |
| **Microphone Correction** | Off |
| **Integration Method** | Exponential |
| **Overload** | 145.0 dB |

| | A | C | Z |
|---|---|---|---|
| **Under Range Peak** | **101.2** | 98.2 | 103.2 dB |
| **Under Range Limit** | **37.6** | 35.6 | 43.6 dB |
| **Noise Floor** | 24.8 | 25.3 | 32.8 dB |

## Results

| | | |
|---|---|---|
| **$LA_{Seq}$** | 54.2 dB | |
| **LASE** | 83.8 dB | |
| **EAS** | 26.475 µPa²h | |
| **EAS8** | 847.185 µPa²h | |
| **EAS40** | 4.236 mPa²h | |
| **$LA_{Speak\ (max)}$** | 2017-12-22 09:32:19 | 90.1 dB |
| **$LA_{Smax}$** | 2017-12-22 09:27:40 | 70.5 dB |
| **$LA_{Smin}$** | 2017-12-22 09:33:05 | 38.6 dB |
| **SEA** | -99.9 dB | |
| | | |
| **LAS > 85.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |
| **LAS > 115.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |
| **$LA_{Speak}$ > 135.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |
| **$LA_{Speak}$ > 137.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |
| **$LA_{Speak}$ > 140.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |
| | | |
| **$LC_{Seq}$** | 64.5 dB | |
| **$LA_{Seq}$** | 54.2 dB | |
| **$LC_{Seq}$ - $LA_{Seq}$** | 10.3 dB | |
| **$LA_{Ieq}$** | 57.8 dB | |
| **$LA_{eq}$** | 54.2 dB | |
| **$LA_{Ieq}$ - $LA_{eq}$** | 3.5 dB | |

| | A | | C | | Z | |
|---|---|---|---|---|---|---|
| | **dB** | **Time Stamp** | **dB** | **Time Stamp** | **dB** | **Time Stamp** |
| **$L_{eq}$** | 54.2 | | | | | |
| **$L_{S(max)}$** | 70.5 | 2017/12/22 9:27:40 | | | | |
| **$L_{S(min)}$** | 38.6 | 2017/12/22 9:33:05 | | | | |
| **$L_{Peak(max)}$** | 90.1 | 2017/12/22 9:32:19 | | | | |

| | | |
|---|---|---|
| **# Overloads** | 0 | |
| **Overload Duration** | 0.0 | s |

## Dose Settings

| | | | |
|---|---|---|---|
| **Dose Name** | OSHA-1 | OSHA-2 | |
| **Exchange Rate** | 5 | 5 | dB |
| **Threshold** | 90 | 80 | dB |
| **Criterion Level** | 90 | 90 | dB |
| **Criterion Duration** | 8 | 8 | h |

## Results

| | | | |
|---|---|---|---|
| **Dose** | -99.9 | -99.9 | % |
| **Projected Dose** | -99.9 | -99.9 | % |
| **TWA (Projected)** | -99.9 | -99.9 | dB |
| **TWA (t)** | -99.9 | -99.9 | dB |
| **Lep (t)** | 39.2 | 39.2 | dB |

## Statistics

| | | |
|---|---|---|
| **LAS5.00** | 60.7 | dB |
| **LAS10.00** | 56.6 | dB |
| **LAS33.30** | 46.9 | dB |
| **LAS50.00** | 43.9 | dB |
| **LAS66.60** | 42.3 | dB |
| **LAS90.00** | 40.7 | dB |

## Calibration History

| **Preamp** | **Date** | **dB re. 1V/Pa** | **6.3** | **8.0** | **10.0** |
|---|---|---|---|---|---|
| **PRMLxT1** | 2017-12-22 08:15:32 | -51.2 | | | |
| **PRMLxT1** | 2017-12-20 08:14:40 | -51.3 | | | |
| **PRMLxT1** | 2017-12-20 08:14:24 | -51.3 | | | |
| **PRMLxT1** | 2017-12-14 11:51:06 | -51.1 | | | |
| **PRMLxT1** | 2017-12-14 08:29:13 | -51.2 | | | |
| **PRMLxT1** | 2017-12-13 08:48:37 | -51.2 | | | |
| **PRMLxT1** | 2017-12-12 13:29:17 | -51.1 | | | |
| **PRMLxT1** | 2017-11-29 09:25:09 | -51.2 | | | |
| **PRMLxT1** | 2017-11-29 09:24:53 | -51.2 | | | |
| **PRMLxT1** | 2017-11-21 09:22:04 | -53.4 | | | |
| **PRMLxT1** | 2017-11-02 09:20:08 | -53.7 | | | |

## Summary

| | |
|---|---|
| **File Name on Meter** | LxT_Data.102 |
| **File Name on PC** | SLM_0004983_LxT_Data_102.00.ldbin |
| **Serial Number** | 0004983 |
| **Model** | SoundTrack LxT® |
| **Firmware Version** | 2.301 |
| **User** | |
| **Location** | R5 |
| **Job Description** | |
| **Note** | |

## Measurement

| | |
|---|---|
| **Description** | |
| **Start** | 2017-12-22 09:36:40 |
| **Stop** | 2017-12-22 09:51:40 |
| **Duration** | 00:15:00.0 |
| **Run Time** | 00:15:00.0 |
| **Pause** | 00:00:00.0 |
| | |
| **Pre Calibration** | 2017-12-22 08:15:32 |
| **Post Calibration** | None |
| **Calibration Deviation** | --- |

## Overall Settings

| | |
|---|---|
| **RMS Weight** | A Weighting |
| **Peak Weight** | A Weighting |
| **Detector** | Slow |
| **Preamp** | PRMLxT1 |
| **Microphone Correction** | Off |
| **Integration Method** | Exponential |
| **Overload** | 145.0 dB |

| | A | C | Z |
|---|---|---|---|
| **Under Range Peak** | **101.2** | 98.2 | 103.2 dB |
| **Under Range Limit** | **37.6** | 35.6 | 43.6 dB |
| **Noise Floor** | 24.8 | 25.3 | 32.8 dB |

## Results

| | | |
|---|---|---|
| **$LA_{Seq}$** | 53.8 dB | |
| **LASE** | 83.4 dB | |
| **EAS** | 24.071 µPa²h | |
| **EAS8** | 770.270 µPa²h | |
| **EAS40** | 3.851 mPa²h | |
| **$LA_{Speak\ (max)}$** | 2017-12-22 09:51:24 | 87.3 dB |
| **$LA_{Smax}$** | 2017-12-22 09:42:07 | 66.9 dB |
| **$LA_{Smin}$** | 2017-12-22 09:50:19 | 39.1 dB |
| **SEA** | -99.9 dB | |

| | | |
|---|---|---|
| **LAS > 85.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |
| **LAS > 115.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |
| **$LA_{Speak}$ > 135.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |
| **$LA_{Speak}$ > 137.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |
| **$LA_{Speak}$ > 140.0 dB (Exceedance Counts / Duration)** | 0 | 0.0 s |

| | |
|---|---|
| **$LC_{Seq}$** | 64.0 dB |
| **$LA_{Seq}$** | 53.8 dB |
| **$LC_{Seq}$ - $LA_{Seq}$** | 10.2 dB |
| **$LA_{Ieq}$** | 57.4 dB |
| **$LA_{eq}$** | 53.8 dB |
| **$LA_{Ieq}$ - $LA_{eq}$** | 3.6 dB |

| | A | | C | | Z | |
|---|---|---|---|---|---|---|
| | **dB** | **Time Stamp** | **dB** | **Time Stamp** | **dB** | **Time Stamp** |
| **$L_{eq}$** | 53.8 | | | | | |
| **$L_{S(max)}$** | 66.9 | 2017/12/22 9:42:07 | | | | |
| **$L_{S(min)}$** | 39.1 | 2017/12/22 9:50:19 | | | | |
| **$L_{Peak(max)}$** | 87.3 | 2017/12/22 9:51:24 | | | | |

| | | |
|---|---|---|
| **# Overloads** | 0 | |
| **Overload Duration** | 0.0 | s |

## Dose Settings

| | | | |
|---|---|---|---|
| **Dose Name** | OSHA-1 | OSHA-2 | |
| **Exchange Rate** | 5 | 5 | dB |
| **Threshold** | 90 | 80 | dB |
| **Criterion Level** | 90 | 90 | dB |
| **Criterion Duration** | 8 | 8 | h |

## Results

| | | | |
|---|---|---|---|
| **Dose** | -99.9 | -99.9 | % |
| **Projected Dose** | -99.9 | -99.9 | % |
| **TWA (Projected)** | -99.9 | -99.9 | dB |
| **TWA (t)** | -99.9 | -99.9 | dB |
| **Lep (t)** | 38.8 | 38.8 | dB |

## Statistics

| | | |
|---|---|---|
| **LAS5.00** | 61.6 | dB |
| **LAS10.00** | 58.5 | dB |
| **LAS33.30** | 47.8 | dB |
| **LAS50.00** | 45.0 | dB |
| **LAS66.60** | 43.6 | dB |
| **LAS90.00** | 41.6 | dB |

## Calibration History

| **Preamp** | **Date** | **dB re. 1V/Pa** | **6.3** | **8.0** | **10.0** |
|---|---|---|---|---|---|
| **PRMLxT1** | 2017-12-22 08:15:32 | -51.2 | | | |
| **PRMLxT1** | 2017-12-20 08:14:40 | -51.3 | | | |
| **PRMLxT1** | 2017-12-20 08:14:24 | -51.3 | | | |
| **PRMLxT1** | 2017-12-14 11:51:06 | -51.1 | | | |
| **PRMLxT1** | 2017-12-14 08:29:13 | -51.2 | | | |
| **PRMLxT1** | 2017-12-13 08:48:37 | -51.2 | | | |
| **PRMLxT1** | 2017-12-12 13:29:17 | -51.1 | | | |
| **PRMLxT1** | 2017-11-29 09:25:09 | -51.2 | | | |
| **PRMLxT1** | 2017-11-29 09:24:53 | -51.2 | | | |
| **PRMLxT1** | 2017-11-21 09:22:04 | -53.4 | | | |
| **PRMLxT1** | 2017-11-02 09:20:08 | -53.7 | | | |

# APPENDIX B
# Noise Calculation Worksheets

## Project: LAUSD San Pedro High School Comprehensive Modernization

**Construction Noise Impact on Sensitive Receptors**

*Parameters*

| | | |
|---|---|---|
| **Construction Hours:** | 8 | Daytime hours (7 am to 7 pm) |
| | 0 | Evening hours (7 pm to 10 pm) |
| | 0 | Nighttime hours (10 pm to 7 am) |
| **Leq to L10 factor** | 3 | |

| **Phase 1A** | | | | **R1** | | | | | **R2** | | | | | **R3** | | | | | **R4** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Construction Phase*** **Equipment Type** | **No. of Equip.** | **Reference Noise Level at 50ft, Lmax** | **Acoustical Usage Factor** | **Distance (ft)** | **Lmax** | **Leq** | **L10** | **Estimated Noise Shielding, dBA** | **Distance (ft)** | **Lmax** | **Leq** | **L10** | **Estimated Noise Shielding, dBA** | **Distance (ft)** | **Lmax** | **Leq** | **L10** | **Estimated Noise Shielding, dBA** | **Distance (ft)** | **Lmax** | **Leq** | **L10** | **Estimated Noise Shielding, dBA** |
| ***Demolition*** | | | | | **52** | ***49*** | | | | **61** | ***59*** | | | | **77** | ***77*** | | | | **76** | ***75*** | | |
| Excavators | 1 | 81 | 40% | 560 | 45 | 41 | 44 | 15 | 300 | 55 | 51 | 54 | 10 | 80 | 77 | 73 | 76 | 0 | 100 | 75 | 71 | 74 | 0 |
| Other Construction Equipment | 1 | 85 | 50% | 660 | 48 | 45 | 48 | 15 | 400 | 57 | 54 | 57 | 10 | 180 | 74 | 71 | 74 | 0 | 200 | 73 | 70 | 73 | 0 |
| Rubber Tired Dozers | 1 | 82 | 40% | 710 | 44 | 40 | 43 | 15 | 450 | 53 | 49 | 52 | 10 | 230 | 69 | 65 | 68 | 0 | 250 | 68 | 64 | 67 | 0 |
| Crushing/Proc. Equipment | 1 | 84 | 10% | 710 | 46 | 36 | 39 | 15 | 450 | 55 | 45 | 48 | 10 | 230 | 71 | 61 | 64 | 0 | 250 | 70 | 60 | 63 | 0 |
| Concrete Saw | 1 | 90 | 20% | 710 | 52 | 45 | 48 | 15 | 450 | 61 | 54 | 57 | 10 | 230 | 77 | 70 | 73 | 0 | 250 | 76 | 69 | 72 | 0 |
| ***Grading/Modernization*** | | | | | **48** | ***47*** | | | | **63** | ***62*** | | | | **56** | ***55*** | | | | **45** | ***43*** | | |
| Tractor/Loader/Backhoe | 1 | 80 | 25% | 450 | 46 | 40 | 43 | 15 | 220 | 62 | 56 | 59 | 5 | 290 | 55 | 49 | 52 | 10 | 780 | 41 | 35 | 38 | 15 |
| Rubber Tired Dozer | 1 | 82 | 40% | 550 | 46 | 42 | 45 | 15 | 320 | 61 | 57 | 60 | 5 | 390 | 54 | 50 | 53 | 10 | 880 | 42 | 38 | 41 | 15 |
| Graders | 1 | 85 | 40% | 600 | 48 | 44 | 47 | 15 | 370 | 63 | 59 | 62 | 5 | 440 | 56 | 52 | 55 | 10 | 930 | 45 | 41 | 44 | 15 |
| ***Construction (Interim Housing/Portables)*** | | | | | **67** | ***67*** | | | | **69** | ***69*** | | | | **57** | ***57*** | | | | **41** | ***42*** | | |
| Forklift | 1 | 75 | 10% | 150 | 65 | 55 | 58 | 0 | 100 | 69 | 59 | 62 | 0 | 150 | 55 | 45 | 48 | 10 | 780 | 36 | 26 | 29 | 15 |
| Cranes | 1 | 81 | 40% | 250 | 67 | 63 | 66 | 0 | 200 | 69 | 65 | 68 | 0 | 250 | 57 | 53 | 56 | 10 | 880 | 41 | 37 | 40 | 15 |
| Generator Sets | 1 | 81 | 50% | 300 | 65 | 62 | 65 | 0 | 250 | 67 | 64 | 67 | 0 | 300 | 55 | 52 | 55 | 10 | 930 | 41 | 38 | 41 | 15 |
| Tractor/Loader/Backhoe | 1 | 80 | 25% | 300 | 64 | 58 | 61 | 0 | 250 | 66 | 60 | 63 | 0 | 300 | 54 | 48 | 51 | 10 | 930 | 40 | 34 | 37 | 15 |
| Welders | 1 | 74 | 40% | 300 | 58 | 54 | 57 | 0 | 250 | 60 | 56 | 59 | 0 | 300 | 48 | 44 | 47 | 10 | 930 | 34 | 30 | 33 | 15 |
| ***Architectural Coating*** | | | | | **68** | ***65*** | | | | **72** | ***69*** | | | | **58** | ***55*** | | | | **39** | ***36*** | | |
| Air Compressor | 1 | 78 | 50% | 150 | 68 | 65 | 68 | 0 | 100 | 72 | 69 | 72 | 0 | 150 | 58 | 55 | 58 | 10 | 780 | 39 | 36 | 39 | 15 |

| **Phase 1B** | | | | **R1** | | | | | **R2** | | | | | **R3** | | | | | **R4** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Construction Phase*** **Equipment Type** | **No. of Equip.** | **Reference Noise Level at 50ft, Lmax** | **Acoustical Usage Factor** | **Distance (ft)** | **Lmax** | **Leq** | **L10** | **Estimated Noise Shielding, dBA** | **Distance (ft)** | **Lmax** | **Leq** | **L10** | **Estimated Noise Shielding, dBA** | **Distance (ft)** | **Lmax** | **Leq** | **L10** | **Estimated Noise Shielding, dBA** | **Distance (ft)** | **Lmax** | **Leq** | **L10** | **Estimated Noise Shielding, dBA** |
| ***Grading/Modernization*** | | | | | **51** | ***49*** | | | | **67** | ***64*** | | | | **60** | ***57*** | | | | **46** | ***44*** | | |
| Graders | 1 | 85 | 40% | 450 | 51 | 47 | 50 | 15 | 220 | 67 | 63 | 66 | 5 | 290 | 60 | 56 | 59 | 10 | 780 | 46 | 42 | 45 | 15 |
| Rubber Tired Dozers | 1 | 82 | 40% | 550 | 46 | 42 | 45 | 15 | 320 | 61 | 57 | 60 | 5 | 390 | 54 | 50 | 53 | 10 | 880 | 42 | 38 | 41 | 15 |
| Tractor/Loader/Backhoe | 1 | 80 | 25% | 600 | 43 | 37 | 40 | 15 | 370 | 58 | 52 | 55 | 5 | 440 | 51 | 45 | 48 | 10 | 930 | 40 | 34 | 37 | 15 |
| ***Construction (New Construction)*** | | | | | **44** | ***44*** | | | | **52** | ***52*** | | | | **71** | ***70*** | | | | **69** | ***69*** | | |
| Forklift | 1 | 75 | 10% | 560 | 39 | 29 | 32 | 15 | 350 | 48 | 38 | 41 | 10 | 80 | 71 | 61 | 64 | 0 | 100 | 69 | 59 | 62 | 0 |
| Cranes | 1 | 81 | 40% | 660 | 44 | 40 | 43 | 15 | 450 | 52 | 48 | 51 | 10 | 180 | 70 | 66 | 69 | 0 | 200 | 69 | 65 | 68 | 0 |
| Generator Sets | 1 | 81 | 50% | 710 | 43 | 40 | 43 | 15 | 500 | 51 | 48 | 51 | 10 | 230 | 68 | 65 | 68 | 0 | 250 | 67 | 64 | 67 | 0 |
| Tractor/Loader/Backhoe | 1 | 80 | 25% | 710 | 42 | 36 | 39 | 15 | 500 | 50 | 44 | 47 | 10 | 230 | 67 | 61 | 64 | 0 | 250 | 66 | 60 | 63 | 0 |
| Welders | 1 | 74 | 40% | 710 | 36 | 32 | 35 | 15 | 500 | 44 | 40 | 43 | 10 | 230 | 61 | 57 | 60 | 0 | 250 | 60 | 56 | 59 | 0 |
| ***Paving*** | | | | | **52** | ***46*** | | | | **54** | ***49*** | | | | **56** | ***50*** | | | | **79** | ***75*** | | |
| Paver | 2 | 77 | 50% | 900 | 40 | 37 | 40 | 15 | 600 | 43 | 40 | 43 | 15 | 500 | 45 | 42 | 45 | 15 | 100 | 74 | 71 | 74 | 0 |
| Roller | 2 | 80 | 20% | 1000 | 42 | 35 | 38 | 15 | 700 | 45 | 38 | 41 | 15 | 600 | 46 | 39 | 42 | 15 | 200 | 71 | 64 | 67 | 0 |
| Paving Equipment | 2 | 90 | 20% | 1050 | 52 | 45 | 48 | 15 | 750 | 54 | 47 | 50 | 15 | 650 | 56 | 49 | 52 | 15 | 250 | 79 | 72 | 75 | 0 |

## Project: LAUSD San Pedro High School Comprehensive Modernization

Construction Noise Impact on Sensitive Receptors

| Phase 2 | | | | R1 | | | | | R2 | | | | | R3 | | | | | R4 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Construction Phase*** **Equipment Type** | **No. of Equip.** | **Reference Noise Level at 50ft, Lmax** | **Acoustical Usage Factor** | **Distance (ft)** | **Lmax** | **Leq** | **L10** | **Estimated Noise Shielding, dBA** | **Distance (ft)** | **Lmax** | **Leq** | **L10** | **Estimated Noise Shielding, dBA** | **Distance (ft)** | **Lmax** | **Leq** | **L10** | **Estimated Noise Shielding, dBA** | **Distance (ft)** | **Lmax** | **Leq** | **L10** | **Estimated Noise Shielding, dBA** |
| ***Demolition*** | | | | | **50** | ***48*** | | | | **54** | ***52*** | | | | **62** | ***60*** | | | | **60** | ***58*** | | |
| Excavators | 1 | 81 | 40% | 700 | 43 | 39 | 42 | 15 | 400 | 48 | 44 | 47 | 15 | 250 | 57 | 53 | 56 | 10 | 350 | 54 | 50 | 53 | 10 |
| Other Construction Equipment | 1 | 85 | 50% | 800 | 46 | 43 | 46 | 15 | 500 | 50 | 47 | 50 | 15 | 350 | 58 | 55 | 58 | 10 | 450 | 56 | 53 | 56 | 10 |
| Rubber Tired Dozers | 1 | 82 | 40% | 850 | 42 | 38 | 41 | 15 | 550 | 46 | 42 | 45 | 15 | 400 | 54 | 50 | 53 | 10 | 500 | 52 | 48 | 51 | 10 |
| Crushing/Proc. Equipment | 1 | 84 | 10% | 850 | 44 | 34 | 37 | 15 | 550 | 48 | 38 | 41 | 15 | 400 | 56 | 46 | 49 | 10 | 500 | 54 | 44 | 47 | 10 |
| Concrete Saw | 1 | 90 | 20% | 850 | 50 | 43 | 46 | 15 | 550 | 54 | 47 | 50 | 15 | 400 | 62 | 55 | 58 | 10 | 500 | 60 | 53 | 56 | 10 |
| ***Grading/Modernization*** | | | | | **54** | ***52*** | | | | **67** | ***65*** | | | | **74** | ***72*** | | | | **54** | ***53*** | | |
| Tractor/Loader/Backhoe | 1 | 80 | 25% | 440 | 51 | 45 | 48 | 10 | 130 | 67 | 61 | 64 | 5 | 100 | 74 | 68 | 71 | 0 | 400 | 52 | 46 | 49 | 10 |
| Rubber Tired Dozer | 1 | 82 | 40% | 540 | 51 | 47 | 50 | 10 | 230 | 64 | 60 | 63 | 5 | 200 | 70 | 66 | 69 | 0 | 500 | 52 | 48 | 51 | 10 |
| Graders | 1 | 85 | 40% | 590 | 54 | 50 | 53 | 10 | 280 | 65 | 61 | 64 | 5 | 250 | 71 | 67 | 70 | 0 | 550 | 54 | 50 | 53 | 10 |
| ***Construction (Interim Housing/Portables & New construction)*** | | | | | **72** | ***70*** | | | | **71** | ***70*** | | | | **69** | ***69*** | | | | **69** | ***69*** | | |
| Forklift | 1 | 75 | 10% | 70 | 72 | 62 | 65 | 0 | 80 | 71 | 61 | 64 | 0 | 100 | 69 | 59 | 62 | 0 | 100 | 69 | 59 | 62 | 0 |
| Cranes | 1 | 81 | 40% | 170 | 70 | 66 | 69 | 0 | 180 | 70 | 66 | 69 | 0 | 200 | 69 | 65 | 68 | 0 | 200 | 69 | 65 | 68 | 0 |
| Generator Sets | 1 | 81 | 50% | 220 | 68 | 65 | 68 | 0 | 230 | 68 | 65 | 68 | 0 | 250 | 67 | 64 | 67 | 0 | 250 | 67 | 64 | 67 | 0 |
| Tractor/Loader/Backhoe | 1 | 80 | 25% | 220 | 67 | 61 | 64 | 0 | 230 | 67 | 61 | 64 | 0 | 250 | 66 | 60 | 63 | 0 | 250 | 66 | 60 | 63 | 0 |
| Welders | 1 | 74 | 40% | 220 | 61 | 57 | 60 | 0 | 230 | 61 | 57 | 60 | 0 | 250 | 60 | 56 | 59 | 0 | 250 | 60 | 56 | 59 | 0 |
| ***Architectural Coating*** | | | | | **75** | ***72*** | | | | **74** | ***71*** | | | | **72** | ***69*** | | | | **62** | ***59*** | | |
| Air Compressor | 1 | 78 | 50% | 70 | 75 | 72 | 75 | 0 | 80 | 74 | 71 | 74 | 0 | 100 | 72 | 69 | 72 | 0 | 100 | 62 | 59 | 62 | 10 |

| Phase 3 | | | | R1 | | | | | R2 | | | | | R3 | | | | | R4 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Construction Phase*** **Equipment Type** | **No. of Equip.** | **Reference Noise Level at 50ft, Lmax** | **Acoustical Usage Factor** | **Distance (ft)** | **Lmax** | **Leq** | **L10** | **Estimated Noise Shielding, dBA** | **Distance (ft)** | **Lmax** | **Leq** | **L10** | **Estimated Noise Shielding, dBA** | **Distance (ft)** | **Lmax** | **Leq** | **L10** | **Estimated Noise Shielding, dBA** | **Distance (ft)** | **Lmax** | **Leq** | **L10** | **Estimated Noise Shielding, dBA** |
| ***Demolition*** | | | | | **63** | ***62*** | | | | **72** | ***72*** | | | | **68** | ***66*** | | | | **65** | ***62*** | | |
| Excavators | 1 | 81 | 40% | 70 | 63 | 59 | 62 | 15 | 80 | 72 | 68 | 71 | 5 | 450 | 62 | 58 | 61 | 0 | 780 | 57 | 53 | 56 | 0 |
| Other Construction Equipment | 1 | 85 | 50% | 170 | 59 | 56 | 59 | 15 | 180 | 69 | 66 | 69 | 5 | 550 | 64 | 61 | 64 | 0 | 880 | 60 | 57 | 60 | 0 |
| Rubber Tired Dozers | 1 | 82 | 40% | 220 | 54 | 50 | 53 | 15 | 230 | 64 | 60 | 63 | 5 | 600 | 60 | 56 | 59 | 0 | 930 | 57 | 53 | 56 | 0 |
| Crushing/Proc. Equipment | 1 | 84 | 10% | 220 | 56 | 46 | 49 | 15 | 230 | 66 | 56 | 59 | 5 | 600 | 62 | 52 | 55 | 0 | 930 | 59 | 49 | 52 | 0 |
| Concrete Saw | 1 | 90 | 20% | 220 | 62 | 55 | 58 | 15 | 230 | 72 | 65 | 68 | 5 | 600 | 68 | 61 | 64 | 0 | 930 | 65 | 58 | 61 | 0 |
| ***Paving*** | | | | | **70** | ***67*** | | | | **75** | ***71*** | | | | **71** | ***66*** | | | | **68** | ***62*** | | |
| Paver | 2 | 77 | 50% | 70 | 67 | 64 | 67 | 10 | 80 | 71 | 68 | 71 | 5 | 450 | 61 | 58 | 61 | 0 | 780 | 56 | 53 | 56 | 0 |
| Roller | 2 | 80 | 20% | 170 | 62 | 55 | 58 | 10 | 180 | 67 | 60 | 63 | 5 | 550 | 62 | 55 | 58 | 0 | 880 | 58 | 51 | 54 | 0 |
| Paving Equipment | 2 | 90 | 20% | 220 | 70 | 63 | 66 | 10 | 230 | 75 | 68 | 71 | 5 | 600 | 71 | 64 | 67 | 0 | 930 | 68 | 61 | 64 | 0 |

| **Overlapping Phases** | **R1** | **R2** | **R3** | **R4** |
|---|---|---|---|---|
| 1A Construction, 1B Grading/Modernization | ***67*** | ***70*** | ***60*** | ***46*** |
| 1A Construction, 1B Construction, 2 Demo | ***67*** | ***69*** | ***71*** | ***69*** |
| 1A Construction, 1B Paving, 2 Grading/Modernization | ***67*** | ***71*** | ***72*** | ***75*** |
| 1A Construction, 2 Construction | ***72*** | ***72*** | ***69*** | ***69*** |
| 1A Architectural Coating, 2 Construction | ***72*** | ***72*** | ***69*** | ***69*** |
| 2 Construction, 2 Architectural Coating, 3 Demolition | ***75*** | ***76*** | ***73*** | ***70*** |
| **Maximum Noise Level** | ***75*** | ***76*** | ***77*** | ***75*** |

Source for Ref. Noise Levels: LA CEQA Guides, 2006 & FHWA RCNM, 2005

## Project: LAUSD San Pedro High School Comprehensive

**Construction Noise Impact on Sensitive Receptors**

*Parameters*

| | | |
|---|---|---|
| **Construction Hours:** | 8 | Daytime hours (7 am to 7 pm) |
| | 0 | Evening hours (7 pm to 10 pm) |
| | 0 | Nighttime hours (10 pm to 7 am) |
| **Leq to L10 factor** | 3 | |

| **Phase 1A** | | | | **R5** | | | | | **On-Site Classrooms** | | | | | **Dana Middle School Classrooms** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Construction Phase*** **Equipment Type** | **No. of Equip.** | **Reference Noise Level at 50ft, Lmax** | **Acoustical Usage Factor** | **Distance (ft)** | **Lmax** | **Leq** | **L10** | **Estimated Noise Shielding, dBA** | **Distance (ft)** | **Lmax** | **Leq** | **L10** | **Estimated Noise Shielding, dBA** | **Distance (ft)** | **Lmax** | **Leq** | **L10** | **Estimated Noise Shielding, dBA** |
| ***Demolition*** | | | | | **73** | ***71*** | | | | **87** | ***84*** | | | | **48** | ***45*** | | |
| Excavators | 1 | 81 | 40% | 200 | 69 | 65 | 68 | 0 | 25 | 87 | 83 | 86 | 0 | 1000 | 40 | 36 | 39 | 15 |
| Other Construction Equipment | 1 | 85 | 50% | 300 | 69 | 66 | 69 | 0 | 125 | 77 | 74 | 77 | 0 | 1100 | 43 | 40 | 43 | 15 |
| Rubber Tired Dozers | 1 | 82 | 40% | 350 | 65 | 61 | 64 | 0 | 175 | 71 | 67 | 70 | 0 | 1150 | 40 | 36 | 39 | 15 |
| Crushing/Proc. Equipment | 1 | 84 | 10% | 350 | 67 | 57 | 60 | 0 | 175 | 73 | 63 | 66 | 0 | 1150 | 42 | 32 | 35 | 15 |
| Concrete Saw | 1 | 90 | 20% | 350 | 73 | 66 | 69 | 0 | 175 | 79 | 72 | 75 | 0 | 1150 | 48 | 41 | 44 | 15 |
| ***Grading/Modernization*** | | | | | **55** | ***54*** | | | | **86** | ***81*** | | | | **48** | ***47*** | | |
| Tractor/Loader/Backhoe | 1 | 80 | 25% | 350 | 53 | 47 | 50 | 10 | 25 | 86 | 80 | 83 | 0 | 500 | 45 | 39 | 42 | 15 |
| Rubber Tired Dozer | 1 | 82 | 40% | 450 | 53 | 49 | 52 | 10 | 125 | 74 | 70 | 73 | 0 | 600 | 45 | 41 | 44 | 15 |
| Graders | 1 | 85 | 40% | 500 | 55 | 51 | 54 | 10 | 175 | 74 | 70 | 73 | 0 | 650 | 48 | 44 | 47 | 15 |
| ***Construction (Interim Housing/Portables)*** | | | | | **41** | ***42*** | | | | **65** | ***66*** | | | | **52** | ***52*** | | |
| Forklift | 1 | 75 | 10% | 780 | 36 | 26 | 29 | 15 | 200 | 63 | 53 | 56 | 0 | 350 | 48 | 38 | 41 | 10 |
| Cranes | 1 | 81 | 40% | 880 | 41 | 37 | 40 | 15 | 300 | 65 | 61 | 64 | 0 | 450 | 52 | 48 | 51 | 10 |
| Generator Sets | 1 | 81 | 50% | 930 | 41 | 38 | 41 | 15 | 350 | 64 | 61 | 64 | 0 | 500 | 51 | 48 | 51 | 10 |
| Tractor/Loader/Backhoe | 1 | 80 | 25% | 930 | 40 | 34 | 37 | 15 | 350 | 63 | 57 | 60 | 0 | 500 | 50 | 44 | 47 | 10 |
| Welders | 1 | 74 | 40% | 930 | 34 | 30 | 33 | 15 | 350 | 57 | 53 | 56 | 0 | 500 | 44 | 40 | 43 | 10 |
| ***Architectural Coating*** | | | | | **39** | ***36*** | | | | **66** | ***63*** | | | | **46** | ***43*** | | |
| Air Compressor | 1 | 78 | 50% | 780 | 39 | 36 | 39 | 15 | 200 | 66 | 63 | 66 | 0 | 350 | 46 | 43 | 46 | 15 |

| **Phase 1B** | | | | **R5** | | | | | **On-Site Classrooms** | | | | | **Dana Middle School Classrooms** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Construction Phase*** **Equipment Type** | **No. of Equip.** | **Reference Noise Level at 50ft, Lmax** | **Acoustical Usage Factor** | **Distance (ft)** | **Lmax** | **Leq** | **L10** | **Estimated Noise Shielding, dBA** | **Distance (ft)** | **Lmax** | **Leq** | **L10** | **Estimated Noise Shielding, dBA** | **Distance (ft)** | **Lmax** | **Leq** | **L10** | **Estimated Noise Shielding, dBA** |
| ***Grading/Modernization*** | | | | | **79** | ***76*** | | | | **91** | ***87*** | | | | **50** | ***48*** | | |
| Graders | 1 | 85 | 40% | 100 | 79 | 75 | 78 | 0 | 25 | 91 | 87 | 90 | 0 | 500 | 50 | 46 | 49 | 15 |
| Rubber Tired Dozers | 1 | 82 | 40% | 200 | 70 | 66 | 69 | 0 | 125 | 74 | 70 | 73 | 0 | 600 | 45 | 41 | 44 | 15 |
| Tractor/Loader/Backhoe | 1 | 80 | 25% | 250 | 66 | 60 | 63 | 0 | 175 | 69 | 63 | 66 | 0 | 650 | 43 | 37 | 40 | 15 |
| ***Construction (New Construction)*** | | | | | **65** | ***66*** | | | | **81** | ***75*** | | | | **39** | ***40*** | | |
| Forklift | 1 | 75 | 10% | 200 | 63 | 53 | 56 | 0 | 25 | 81 | 71 | 74 | 0 | 1000 | 34 | 24 | 27 | 15 |
| Cranes | 1 | 81 | 40% | 300 | 65 | 61 | 64 | 0 | 125 | 73 | 69 | 72 | 0 | 1100 | 39 | 35 | 38 | 15 |
| Generator Sets | 1 | 81 | 50% | 350 | 64 | 61 | 64 | 0 | 175 | 70 | 67 | 70 | 0 | 1150 | 39 | 36 | 39 | 15 |
| Tractor/Loader/Backhoe | 1 | 80 | 25% | 350 | 63 | 57 | 60 | 0 | 175 | 69 | 63 | 66 | 0 | 1150 | 38 | 32 | 35 | 15 |
| Welders | 1 | 74 | 40% | 350 | 57 | 53 | 56 | 0 | 175 | 63 | 59 | 62 | 0 | 1150 | 32 | 28 | 31 | 15 |
| ***Paving*** | | | | | **79** | ***75*** | | | | **86** | ***84*** | | | | **51** | ***45*** | | |
| Paver | 2 | 77 | 50% | 100 | 74 | 71 | 74 | 0 | 25 | 86 | 83 | 86 | 0 | 1000 | 39 | 36 | 39 | 15 |
| Roller | 2 | 80 | 20% | 200 | 71 | 64 | 67 | 0 | 125 | 75 | 68 | 71 | 0 | 1100 | 41 | 34 | 37 | 15 |
| Paving Equipment | 2 | 90 | 20% | 250 | 79 | 72 | 75 | 0 | 175 | 82 | 75 | 78 | 0 | 1150 | 51 | 44 | 47 | 15 |

**Project: LAUSD San Pedro High School Comprehensive**

Construction Noise Impact on Sensitive Receptors

| Phase 2 | | | | R5 | | | | | On-Site Classrooms | | | | | Dana Middle School Classrooms | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Construction Phase* Equipment Type | No. of Equip. | Reference Noise Level at 50ft, Lmax | Acoustical Usage Factor | Distance (ft) | Lmax | Leq | L10 | Estimated Noise Shielding, dBA | Distance (ft) | Lmax | Leq | L10 | Estimated Noise Shielding, dBA | Distance (ft) | Lmax | Leq | L10 | Estimated Noise Shielding, dBA |
| ***Demolition*** | | | | | **56** | ***53*** | | | | **83** | ***81*** | | | | **48** | ***45*** | | |
| Excavators | 1 | 81 | 40% | 320 | 50 | 46 | 49 | 15 | 40 | 83 | 79 | 82 | 0 | 1000 | 40 | 36 | 39 | 15 |
| Other Construction Equipment | 1 | 85 | 50% | 420 | 52 | 49 | 52 | 15 | 140 | 76 | 73 | 76 | 0 | 1100 | 43 | 40 | 43 | 15 |
| Rubber Tired Dozers | 1 | 82 | 40% | 470 | 48 | 44 | 47 | 15 | 190 | 70 | 66 | 69 | 0 | 1150 | 40 | 36 | 39 | 15 |
| Crushing/Proc. Equipment | 1 | 84 | 10% | 470 | 50 | 40 | 43 | 15 | 190 | 72 | 62 | 65 | 0 | 1150 | 42 | 32 | 35 | 15 |
| Concrete Saw | 1 | 90 | 20% | 470 | 56 | 49 | 52 | 15 | 190 | 78 | 71 | 74 | 0 | 1150 | 48 | 41 | 44 | 15 |
| ***Grading/Modernization*** | | | | | **53** | ***52*** | | | | **82** | ***77*** | | | | **44** | ***43*** | | |
| Tractor/Loader/Backhoe | 1 | 80 | 25% | 220 | 52 | 46 | 49 | 15 | 40 | 82 | 76 | 79 | 0 | 800 | 41 | 35 | 38 | 15 |
| Rubber Tired Dozer | 1 | 82 | 40% | 320 | 51 | 47 | 50 | 15 | 140 | 73 | 69 | 72 | 0 | 900 | 42 | 38 | 41 | 15 |
| Graders | 1 | 85 | 40% | 370 | 53 | 49 | 52 | 15 | 190 | 73 | 69 | 72 | 0 | 950 | 44 | 40 | 43 | 15 |
| ***Construction (Interim Housing/Portables & New construction)*** | | | | | **44** | ***44*** | | | | **81** | ***75*** | | | | **52** | ***52*** | | |
| Forklift | 1 | 75 | 10% | 550 | 39 | 29 | 32 | 15 | 25 | 81 | 71 | 74 | 0 | 350 | 48 | 38 | 41 | 10 |
| Cranes | 1 | 81 | 40% | 650 | 44 | 40 | 43 | 15 | 125 | 73 | 69 | 72 | 0 | 450 | 52 | 48 | 51 | 10 |
| Generator Sets | 1 | 81 | 50% | 700 | 43 | 40 | 43 | 15 | 175 | 70 | 67 | 70 | 0 | 500 | 51 | 48 | 51 | 10 |
| Tractor/Loader/Backhoe | 1 | 80 | 25% | 700 | 42 | 36 | 39 | 15 | 175 | 69 | 63 | 66 | 0 | 500 | 50 | 44 | 47 | 10 |
| Welders | 1 | 74 | 40% | 700 | 36 | 32 | 35 | 15 | 175 | 63 | 59 | 62 | 0 | 500 | 44 | 40 | 43 | 10 |
| ***Architectural Coating*** | | | | | **50** | ***47*** | | | | **80** | ***77*** | | | | **46** | ***43*** | | |
| Air Compressor | 1 | 78 | 50% | 220 | 50 | 47 | 50 | 15 | 40 | 80 | 77 | 80 | 0 | 350 | 46 | 43 | 46 | 15 |

| Phase 3 | | | | R5 | | | | | On-Site Classrooms | | | | | Dana Middle School Classrooms | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Construction Phase* Equipment Type | No. of Equip. | Reference Noise Level at 50ft, Lmax | Acoustical Usage Factor | Distance (ft) | Lmax | Leq | L10 | Estimated Noise Shielding, dBA | Distance (ft) | Lmax | Leq | L10 | Estimated Noise Shielding, dBA | Distance (ft) | Lmax | Leq | L10 | Estimated Noise Shielding, dBA |
| ***Demolition*** | | | | | **50** | ***48*** | | | | **73** | ***71*** | | | | **60** | ***58*** | | |
| Excavators | 1 | 81 | 40% | 700 | 43 | 39 | 42 | 15 | 200 | 69 | 65 | 68 | 0 | 350 | 54 | 50 | 53 | 10 |
| Other Construction Equipment | 1 | 85 | 50% | 800 | 46 | 43 | 46 | 15 | 300 | 69 | 66 | 69 | 0 | 450 | 56 | 53 | 56 | 10 |
| Rubber Tired Dozers | 1 | 82 | 40% | 850 | 42 | 38 | 41 | 15 | 350 | 65 | 61 | 64 | 0 | 500 | 52 | 48 | 51 | 10 |
| Crushing/Proc. Equipment | 1 | 84 | 10% | 850 | 44 | 34 | 37 | 15 | 350 | 67 | 57 | 60 | 0 | 500 | 54 | 44 | 47 | 10 |
| Concrete Saw | 1 | 90 | 20% | 850 | 50 | 43 | 46 | 15 | 350 | 73 | 66 | 69 | 0 | 500 | 60 | 53 | 56 | 10 |
| ***Paving*** | | | | | **53** | ***48*** | | | | **76** | ***71*** | | | | **63** | ***57*** | | |
| Paver | 2 | 77 | 50% | 700 | 42 | 39 | 42 | 15 | 200 | 68 | 65 | 68 | 0 | 350 | 53 | 50 | 53 | 10 |
| Roller | 2 | 80 | 20% | 800 | 44 | 37 | 40 | 15 | 300 | 67 | 60 | 63 | 0 | 450 | 54 | 47 | 50 | 10 |
| Paving Equipment | 2 | 90 | 20% | 850 | 53 | 46 | 49 | 15 | 350 | 76 | 69 | 72 | 0 | 500 | 63 | 56 | 59 | 10 |

| Overlapping Phases | R5 | On-Site Classrooms | Dana Middle School Classrooms |
|---|---|---|---|
| 1A Construction, 1B Grading/Modernization | ***76*** | ***87*** | ***54*** |
| 1A Construction, 1B Construction, 2 Demo | ***66*** | ***82*** | ***53*** |
| 1A Construction, 1B Paving, 2 Grading/Modernization | ***75*** | ***85*** | ***53*** |
| 1A Construction, 2 Construction | ***46*** | ***75*** | ***55*** |
| 1A Architectural Coating, 2 Construction | ***45*** | ***75*** | ***53*** |
| 2 Construction, 2 Architectural Coating, 3 Demolition | ***51*** | ***80*** | ***59*** |
| **Maximum Noise Level** | ***76*** | ***87*** | ***59*** |

Source for Ref. Noise Levels: LA CEQA Guides, 2006 & FHWA RCNM, 2005

# TRAFFIC NOISE ANALYSIS TOOL

**Project Name:** San Pedro High School
**Project Number:** D211085.31
**Analysis Scenario:** Construction Traffic
**Source of Traffic Volumes:** Worst case construction traffic

| | Roadway Segment | Ground Type | Distance from Roadway to Receiver (feet) | Speed (mph) | | | Peak Hour Volume | | | Peak Hour Noise Level (Leq(h) dBA) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Auto | MT | HT | Auto | MT | HT | |
| R1 | 14th Street | Hard | 40 | 0 | 0 | 25 | 0 | 0 | 10 | 56 |
| R2 | Alma Street | Hard | 50 | 0 | 0 | 25 | 0 | 0 | 10 | 55 |
| R3 | 15th Street | Hard | 45 | 0 | 0 | 25 | 0 | 0 | 10 | 56 |
| R4 | Leland Street | Hard | 50 | 0 | 0 | 25 | 0 | 0 | 10 | 55 |
| R5 | 17th Street | Hard | 30 | 0 | 0 | 25 | 0 | 0 | 10 | 58 |

Model Notes:
The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
Noise propagation greater than 50 feet is based on the following assumptions:
For hard ground, the propagation rate is 3 dB per doubling the distance.
For soft ground, the propagation rate is 4.5 dB per doubling the distance.
Vehicles are assumed to be on a long straight roadway with cruise speed.
Roadway grade is less than 1.5%.
CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.

# Appendix F

## Traffic and Pedestrian Safety Memo

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# memorandum

| | |
|---|---|
| date | March 15, 2018 |
| to | Will Meade, LAUSD |
| cc | Arabesque Abdelwahed |
| from | Jack Hutchison, P.E. |
| subject | **San Pedro High School Comprehensive Modernization**<br>**Traffic and Pedestrian Safety Analysis** |

This memorandum evaluates the potential traffic and pedestrian safety effects of the proposed San Pedro High School Comprehensive Modernization Project (proposed Project). The proposed Project is a site-specific school upgrade and modernization Project being completed by the Los Angeles Unified School District (LAUSD) under the School Upgrade Program (SUP), which seeks to improve and modernize aging existing schools in the District. The San Pedro High School (San Pedro HS) Campus is an existing 22.9-acre site located at 1001 West 15th Street, within the southeast portion of the City of Los Angeles. **Figure 1** illustrates the Project site location. The Campus comprises two city blocks and is bound by West 15th Street to the north, Dana Middle School immediately to the east, West 17th Street to the south, and South Leland Street to the west (**Figure 2**). Project implementation will not occur across the entire school Campus, but on selected areas undergoing renovation.

## Project Background

The proposed Project would include the demolition and removal and modernization of existing buildings, and construction of new facilities at the San Pedro HS. Project implementation would not increase the number of students attending the school or staff required to operate the school, and therefore would not generate new (permanent) traffic to the study area.

In addition, LAUSD is overseeing preparation of a Removal Action Workplan (RAW) for the proposed Project, to be implemented prior to demolition or construction activities that would disturb areas of concern related to soil contamination. It is estimated that the proposed Project would include removal of an estimated 350 cubic yards of contaminated soil.

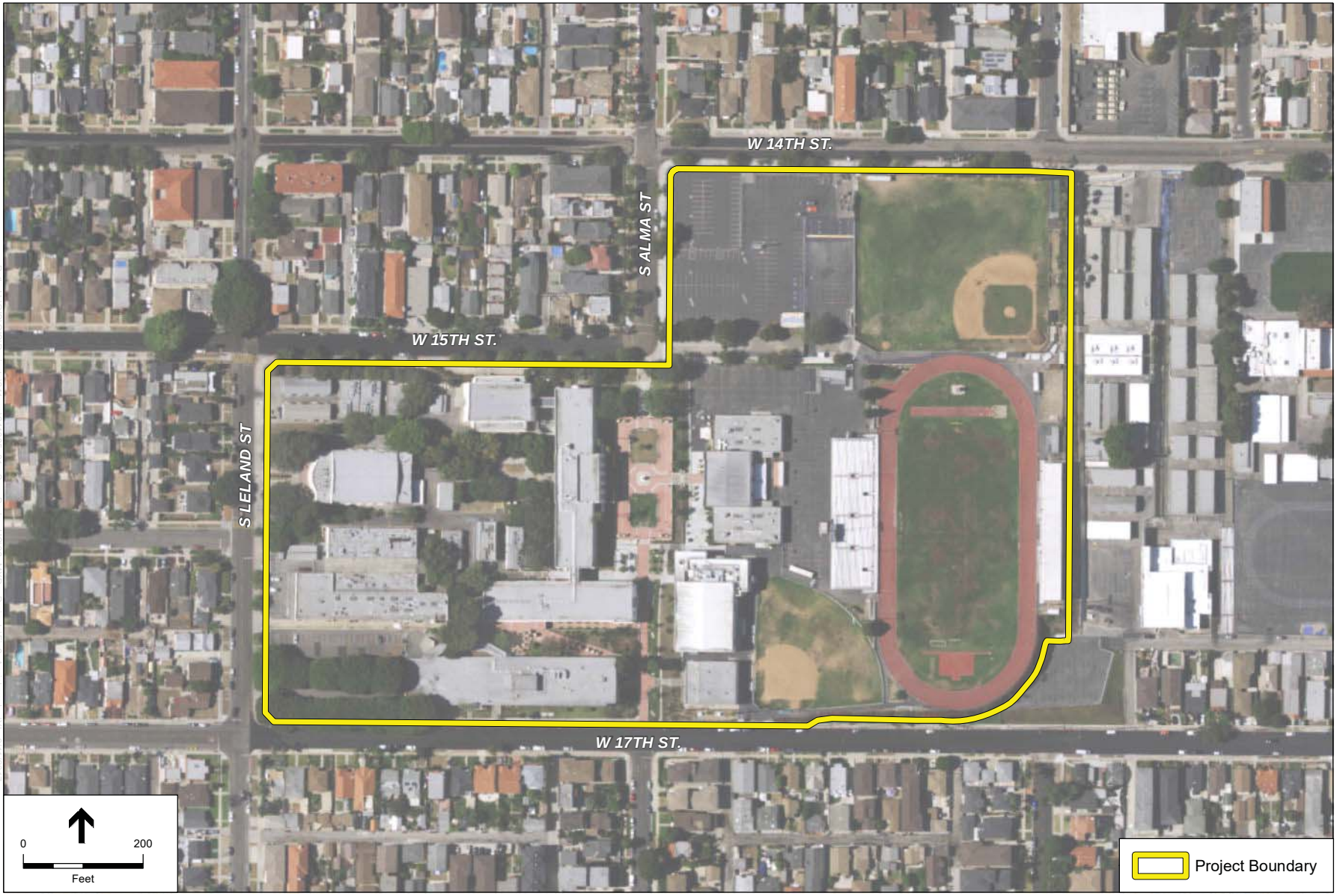



SOURCE: Los Angeles County GIS.

San Pedro High School. 211085.31

**Figure 1**

Project Vicinity




SOURCE: ESRI

San Pedro High School Comprehensive Modernization Project . 211085.31

**Figure 2**
Project Location

# Analysis Methodology

It is anticipated that Campus operations would be more efficient or would be otherwise improved following implementation of the proposed Project, which would result in new and upgraded facilities, and would not result in substantive changes to the existing operation of the school. Project implementation would not provide for an increase in the number of students attending the school or staff required to operate the school. As such, operational activities associated with the proposed Project are not additive to those operations analyzed in the Program EIR and would not result in substantial changes that have not previously been identified in the Program EIR. Specifically related to the traffic analysis presented herein, there would be no permanent increase in traffic generated by the school. Therefore, this analysis primarily focuses on potential impacts associated with temporary increases in traffic associated with Project construction activity. The exception to that focus is an evaluation of potential impacts associated with the proposed reconfiguration of the vehicular/bus drop-off and pickup zones, new driveway on West 17th Street for the parking lot at the southwest corner of the Campus, and the change to the main entrance to the Campus.

The methodology for the analysis was as follows:

1. Estimate construction trip generation using forecasts of construction workers and trucks provided by LAUSD.

2. Evaluate the effect of Project construction-generated traffic on traffic flow conditions on area roads, based on the general carrying capacities of area roadways.

3. Evaluate Existing with Project pedestrian safety conditions.

4. Provide a summary of the findings and make recommendations regarding the proposed Project, if necessary.

    a. As a matter of course, LAUSD would incorporate Standard Condition of Approval SC-T-4 into the construction phase of the proposed Project.

| | |
|---|---|
| SC-T-4 | LAUSD shall require its contractors to submit a construction worksite traffic control plan to the local City or County jurisdiction for review prior to construction. The plan shall show the location of any haul routes, hours of operation, protective devices, warning signs, and access to abutting properties. LAUSD shall encourage its contractor to limit construction-related trucks to off-peak commute periods. As required by Caltrans, applicable transportation related safety measures shall be implemented during construction. |

# Project Characteristics

The school's main entrance (at the intersection of West 15th Street and South Alma Street) would be relocated to South Leland Street between West 16th Street and West 17th Street. A secondary pedestrian entrance to the school would be located on the north side of Campus, between the existing Administration and Old Gym Buildings off West 15th Street. Internal circulation routes would include emergency vehicle access and pedestrian access.

The Campus currently includes a staff/visitor parking lot on the southwest corner of the Campus off South Leland Street, and a staff/student parking lot in the northeast portion of the Campus off South Alma Street. The Campus currently includes 248 parking stalls (168 stalls in the northeast and 80 stalls in the southwest), and the proposed Project would reduce the number of onsite parking spaces to 226 parking stalls (159 parking stalls in the northeast and 67 stalls in the southwest). The staff/visitor parking lot would be reconfigured, but would remain on the southwestern corner of the Campus. The reconfiguration would include a split into two areas – a 60-space main parking lot for school staff (with a new full-access driveway on West 17th Street) and a 7-space short-term parking area for visitors (using the two existing driveways on South Leland Street for ingress and egress).

The proposed Project would be developed in a minimum of three phases over a 3- to 4-year construction phasing schedule. The construction schedule would have limited-to-no overlap between phases. All construction would occur during daytime hours, Monday through Friday. Construction is anticipated to begin in early 2020 and to be completed in mid-2023. The Lead Agency for the Project is LAUSD. The Los Angeles Department of Transportation (LADOT) is one of the reviewing agencies that would have facilities affected by potential construction-related traffic impacts.

## Existing Conditions Summary

Access to the Project site is provided by a series of local and regional roads. The roads that would be used by Project-related traffic (construction workers and trucks) are anticipated to be West 14th Street and West 17th Street (two-lane local streets) from Gaffey Street (four-lane arterial), and I-110 and SR 47 (regional freeways, located about two miles northeast of the Project site). The street intersections on the expected haul routes where Project truck traffic would turn generally are controlled by traffic signals or by stop signs on all approaches. Characteristics of the existing roadway system in the Project vicinity are shown in **Table 1**.

**Table 1**
**Study Area Roadway System**

| Roadway | Type | Number of Travel Lanes | Sidewalks | Bicycle Lanes |
|---|---|---|---|---|
| West 14th Street | Local Street (Standard) | 2 | Yes | No |
| West 17th Street | Collector | 2 | Yes | No |
| South Leland Street | Local Street (Standard) | 2 | Yes | No |
| Gaffey Street | Avenue II (Secondary Highway) | 4 | Yes | No |

Although roadway and traffic characteristics (e.g., parking, traffic signals) affect the carrying capacity of roadways, for transportation planning purposes, two-lane roadways (like West 17th Street and South Leland Street) have the capacity to accommodate about 15,000 vehicles per day, and the carrying capacity of four-lane roadways (like Gaffey Street) ranges up to 40,000 vehicles per day. Data available from LADOT indicates that the daily traffic volume on Gaffey Street at West 17th Street is about 25,000 vehicles (i.e., with a volume-to-capacity [v/c] ratio of about 0.625). Available LADOT traffic volume data for West 17th Street indicates v/c ratios of no higher than 0.300.

Students, faculty and staff can currently travel to school using public transit routes, bicycles and by walking. There are sidewalks on all streets surrounding the school. In addition, LAUSD encourages ride-sharing programs for students and teachers, as well as walking and riding bicycles to school. The Project site vicinity is served by the City of Los Angeles DASH San Pedro Route, with bus stops at West 19th Street and South Leland and South Alma streets, and by the County of Los Angeles Metropolitan Transit Authority, with bus stops for Route 205 and 550 located on West 13th Street at South Leland Street.

# Existing with Project Summary

This section documents Project-generated traffic impacts during the peak construction phase on the surrounding transportation system. The additional traffic generated by the construction activities would be temporary, and would last through the phases of the estimated 3- to 4-year construction period. The proposed Project would not increase the existing number of students or staff, and therefore it would not generate new (permanent) traffic to the study area.

## Removal Action Workplan

Prior to construction, soil contaminated by lead, arsenic, and organochlorine pesticide (OCP) would be removed from the site and replaced with clean fill dirt. A Removal Action Workplan (RAW) has been prepared to address removal of approximately 350 cubic yards of soil to meet cleanup goals. Over a one-week period, haul trucks would transport contaminated soil to an appropriate landfill permitted to accept this waste type. The RAW would be completed prior to construction for the comprehensive modernization.

## Construction Phasing

The proposed Project would be developed in a minimum of three phases over a 3- to 4-year period, and would include on-site demolition, excavation, stockpiling, and grading activities. In addition, trucks would be intermittently delivering building materials to the site. The construction schedule would have limited-to-no overlap between phases.

### *Construction (Comprehensive Modernization Phases)*

- **Phase 1 (19 months)**: During this phase, the Food Service Building, Lunch Shelter, Industrial Arts Building, Metal Shop Building, portable buildings, and ramps connecting Classroom Building #1 to Classroom Building #2 would be demolished. The existing Physical Education Building would be modernized. New portables would be added as interim housing on the northern portion of the Project site. Construction of the New Building A, southwest parking lot would be completed. Reconstruction would occur for programmatic access at southeast portion of parking lot, Auditorium Building, and Girls' Gymnasium.

- **Phase 2 (16 months)**: During this phase, the bungalows and portable buildings would be removed. The existing Administration Building, Home Economics Building, and Classroom Building would be modernized. The new Lunch Shelter and New Building B would be constructed.

- **Phase 3 (17 months)**: During this phase, the specialty classrooms would be relocated to their respective buildings and interim portable buildings would be removed. The north parking lot and tennis courts would be constructed.

## Trip Generation

Based on information provided by LAUSD, the proposed Project would require a maximum of about 150 workers onsite on a given day, generating a maximum of about 376 one-way trips per day.[1] During the one-week period of pre-construction removal of contaminated soil, there would be 4 to 6 workers onsite each day. The work hours would be such that workers would primarily travel to and from the Project site outside of peak traffic hours (morning and late afternoon/evening). The maximum number of daily truck trips would be about 100 one-way trips per day (for both the removal of contaminated soil and Project construction). It is anticipated that truck trips would be spread over the daily work hours. It is conservatively assuming that the up to 476 one-way vehicle trips (376 worker trips plus 100 truck trips) would travel on all of the study roads, and the resulting increase to v/c ratios under Existing with Project conditions would be 0.032 and 0.012 on the two-lane and four-lane roads, respectively. Study area roadways would continue to operate with a v/c ratio of less than 0.700 on a daily basis under the Existing plus Project conditions, and the temporary Project-related increases in v/c ratio would not exceed the threshold of significance established by LADOT. Therefore, there would be no significant traffic impacts on the study area roadways with the addition of Project construction traffic (i.e., the roadways would continue to accommodate traffic within the roadways' carrying capacity).

LAUSD requires its contractors to submit a construction worksite traffic control plan to LADOT for review prior to construction, as required by SC-T-4. Elements of the traffic control plan would include, but would not necessarily be limited to, restricting construction-related trucks to off-peak commute periods, and provision of flaggers to assist or direct traffic flows to and from the local streets A "haul route permit" may be required and obtained from the Los Angeles Department of Building and Safety (LADBS). Therefore, the Project would not cause an increase in traffic that is substantial in relation to the existing traffic load and capacity of the street system. As such, impacts would be less than significant.

Regarding Congestion Management Program considerations, level of service standards established by jurisdictions (such as Los Angeles County) are intended to regulate long-term (permanent) traffic increases associated with new development and do not apply to short-term (temporary) traffic increases that occur during construction.[2] As stated above, school enrollment and staff levels would remain the same at San Pedro HS following completion of the proposed Project, and there would be no permanent increase in traffic generated by the Project. Potential impacts associated with the proposed Project would be limited to construction activity, and the temporary increased vehicle trips would cease when construction is complete, and implementation of the proposed Project would not result in any long-term, ongoing effects related to traffic and congestion.

Although there would be no permanent increase in traffic generated by the Project, there could be potential redistribution of traffic as a result of the proposed reconfiguration of the vehicular/bus drop-off and pickup zones,

1 Daily trips by construction workers would consist of inbound and outbound commute trips (conservatively assumed to be each worker in their own vehicle), plus midday trips (lunch or other errands) by about 25% of the workers.

2 Per the Los Angeles County 2010 Congestion Management Program, analysis of the cause of a "deficiency" (i.e., when level of service standards are not maintained) shall exclude traffic generated by construction activity.

new driveway on West 17th Street for the parking lot at the southwest corner of the Campus, and the change to the main entrance to the Campus.

More people will likely use West 17th Street and South Leland Street (to access the new drop-off/pickup zone on South Leland Street), with decreased use of West 14th Street (to access the existing drop-off/pickup zone on South Alma Street / West 15th Street). After the Project is complete, the existing drop off/pickup zone on South Alma Street / West 15th Street will remain in place, and new drop off/pickup zones will be put in place on South Leland Street and West 17th Street, which will result in greater dispersal of vehicles dropping off and picking ups students. The increase to the traffic volume on West 17th Street is not expected to be substantial, and West 17th Street, currently with v/c ratios no higher than 0.300, would continue to accommodate traffic within the roadway's carrying capacity, as would South Leland Street.[3] Regarding potential effects on traffic circulation associated with the proposed new driveway on West 17th Street for the parking lot, the number of vehicles travelling to and from the parking lot would be less than at present (i.e., there would be fewer parking stalls in the lot). For the above reasons, the Project would not cause substantial increases in traffic in relation to the existing traffic load and capacity of the street system. Impacts would be less than significant.

## Pedestrian Safety and Access

The Project site is developed with existing school uses. The Campus comprises two city blocks and is bound by West 15th Street to the north, Dana Middle School immediately to the east, West 17th Street to the south, and South Leland Street to the west. Pedestrian access and circulation is provided on sidewalks on all streets surrounding the Campus. The intersections on South Leland Street along the Campus frontage (West 15th, West 16th, and West 17th streets) are all-way stop-controlled intersections, with school crosswalk pavement markings across South Leland Street at West 15th and West 16th streets. In addition, the intersection of West 17th Street / South Alma Street is an all-way stop-controlled intersection with school crosswalk pavement markings across West 17th Street.

The proposed Project would occur on the existing San Pedro High School Campus (with no increase in enrollment); it would not increase traffic volumes on area roadways after construction is completed; it would not directly or indirectly alter the configuration of the existing street system (including sidewalks, crosswalks or traffic control devices at intersections); it would alter vehicle access for the Campus by introducing a new driveway on West 17th Street for a reconfigured parking lot in the southwest corner of the Project site; and it would be designed to enhance path of travel, accessibility, and other pedestrian travel throughout the Campus. The Project design would employ standard engineering practices, such as standard driveway widths and turning radii and the provision of adequate line of sight to avoid design elements that could result in hazards.[4] Vehicular/bus drop-off and pickup zones would be designated in the curb lane adjacent to the Campus on South Leland Street and West 17th Street. The student drop-off and pickup operations have been planned to minimize vehicular queuing in traffic lanes on the local street system (and to reduce queuing that currently occurs on South Alma Street and West 15th Street). Conformance to District policies and local ordinances would ensure that adequate access would be maintained.

Pedestrian access to and from the school during construction would be minimally altered, and any temporary changes to pedestrian access during construction would be completed as outlined in a worksite traffic control plan for the proposed Project (per SC-T-4). Construction vehicles accessing the Campus would avoid drop-off and

3 Although no LADOT traffic volume data is available for South Leland Street, it is reasonable to judge a similar volume-to-capacity ratio (i.e., lower than the carrying capacity) for South Leland Street.

4 LAUSD SUP Final Environmental Impact Report, September 2015, at pages 5.13-10 to 5.13-11.

pickup during the start and end of the school day. Further construction-related access and traffic specifics would be coordinated with the Campus administrators, LAUSD's Transportation Branch, and Office of Environmental Health and Safety and will be detailed in the worksite traffic control plan.

The reconfigured parking lots would be designed per the requirements of LAUSD and the LADOT. Concerns were raised during the public scoping process about the above-described new driveway on West 17th Street and the potential increased risk of safety issues involving children playing in the neighborhood. Although this driveway would create a new potential conflict point where it crosses the sidewalk, the associated potential hazards would not cause a significant pedestrian safety impact because (1) the driveway would be used only by school staff (i.e., predominantly during the periods before students arrive at, and after students depart from, the school, not during other hours of the day); and (2) the number of vehicles travelling to and from the parking lot (and using the West 17th Street driveway), would be less than at present because there would be fewer parking stalls in the lot). In addition, the Project would reduce the relative potential for conflicts and pedestrian safety impacts on the South Leland Street side of the southwest parking lot because the two existing driveways crossing the sidewalk would provide access only to the 7-space visitor parking lot, rather than the existing 83-space parking lot, greatly reducing the number of vehicles crossing the South Leland Street sidewalk.

For the above-stated reasons, the proposed Project would not substantially increase vehicular and/or pedestrian safety hazards (for people travelling to and from the Campus, and people in the surrounding neighborhood [including children]).[5] As such, Project impacts to pedestrian safety would be less than significant.

[5] The Project would not cause a change in the driving habits of people traveling on the area roads (e.g., there is no basis for expecting higher travel speeds), and the Project would not create a situation whereby speed humps would be needed to slow travel speeds.

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**SUBJECT: LETTER OF NO IMPACT FOR SAN PEDRO HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT**

Dear Mr. Meade:

Per our March 15, 2018 *Traffic Memorandum for the San Pedro High School Comprehensive Modernization Project*, we have made the following findings:

- The peak construction phase of the proposed Project would generate up to about 476 daily vehicle trips (376 worker trips and 100 truck trips). Worker trips would consist of up to 150 trips inbound to the Project site at the start of the work day, 150 trips outbound from the Project site at the end of the work day, and 76 trips (38 inbound and 38 outbound) during midday hours. Truck trips would be spread over the course of the work day.

- All of the study roadways would continue to operate with a volume-to-capacity (v/c) ratio of less than 0.700 on a daily basis under the Existing plus Project conditions. Furthermore, for all study roadways, the Project-added increase (no more than 0.032) would not exceed the threshold of significance established by LADOT. Therefore, there would be no significant traffic impacts at the study area roadways with the addition of Project construction traffic.

- Although the proposed Project would not result in significant traffic impacts, LAUSD would incorporate Standard Condition of Approval SC-T-4 into the proposed Project.

**SC-T-4** LAUSD shall require its contractors to submit a construction worksite traffic control plan to the LADOT for review prior to construction. The plan will show the location of any haul routes, hours of operation, protective devices, warning signs, and access to abutting properties LAUSD shall encourage its contractor to limit construction-related trucks to off-peak commute periods. As required by Caltrans, applicable transportation related safety measures shall be implemented during construction.

The worksite traffic control plan will be completed in accordance with the applicable standards and guidelines provided in the California Vehicle Code, or by LAUSD and the Los Angeles Department of Transportation (LADOT) and all related and applicable traffic related standards and guidelines. The worksite traffic control plan shall be submitted to LADOT. With the implementation of SC-T-4, temporary construction-related traffic impacts to the study area roadways, and vehicular and pedestrian access points would be less than significant. Therefore, no impacts to the surrounding street, pedestrian, and bicycle networks would be created by the proposed Project.

Sincerely,

Jack Hutchison, P.E.
Senior Transportation Engineer

# Appendix G
## Removal Action Workplan

ESA

# REMOVAL ACTION WORKPLAN

SAN PEDRO HIGH SCHOOL
COMPREHENSIVE MODERNIZATION PROJECT
1001 W. 15TH STREET
LOS ANGELES, CALIFORNIA 90731

EnSafe Project Number:
0888821394

Prepared for:

Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017

November 14, 2017

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# REMOVAL ACTION WORKPLAN

SAN PEDRO HIGH SCHOOL
COMPREHENSIVE MODERNIZATION PROJECT
1001 W. 15TH STREET
LOS ANGELES, CALIFORNIA 90731

EnSafe Project Number:
0888821394

Prepared for:

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November 14, 2017


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**Reviewed by:**

Daryl Hernandez, P.E.
*Project Director*

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## LIST OF ACRONYMS

| | |
|---|---|
| µg/dL | Micrograms of Lead Per Deciliter of Blood |
| ARAR | Applicable or Relevant and Appropriate Requirements |
| CalEPA | California Environmental Protection Agency |
| CMP | Comprehensive Modernization Project |
| COC | Constituent of Concern |
| COPC | Constituent of Potential Concern |
| CSC | Clark Seif Clark |
| DTSC | Department of Toxic Substance Control |
| ESA | Environmental Site Assessment |
| HASP | Health and Safety Plan |
| HVAC | Heating, Ventilation, and Air Conditioning |
| IQ | Intelligence Quotient |
| LAUSD | Los Angeles Unified School District |
| mph | Miles Per Hour |
| $mg/m^3$ | Milligram Per Cubic Meter |
| mg/kg | Milligrams Per Kilogram |
| OCP | Organochlorine Pesticide |
| OEHS | Office of Environmental Health and Safety |
| OEHHA | Office of Environmental Health Hazard Assessment |
| OSHA | Occupational Safety and Health Administration |
| PCB | Polychlorinated Biphenyls |
| pCi/L | Picocuries Per Liter |
| PEA-E | Preliminary Environmental Assessment-Equivalent |
| PEL | Permissible Exposure Limit |
| $PM_{10}$ | Particulate Matter of 10 Microns in Diameter or Smaller |
| QAPP | Quality Assurance Project Plan |
| RA | Removal Action |
| RACR | Removal Action Completion Report |
| RAO | Removal Action Objective |
| RAW | Removal Action Work Plan |
| RCRA | Resource Conservation and Recovery Act |
| SCAQMD | South Coast Air Quality Management District |
| SSCG | Site Specific Cleanup Goals |
| STLC | Soluble Threshold Limit Concentration |
| SWPPP | Storm Water Pollution Prevention Plan |

| | |
|---|---|
| TCLP | Toxicity Characteristic Leaching Procedure |
| TTLC | Total Threshold Limit Concentration |
| U.S. EPA | United States Environmental Protection Agency |
| USA | Underground Service Alert |
| VOC | Volatile Organic Compounds |
| $yd^3$ | Cubic Yards |

## 1.0 INTRODUCTION

This document presents a Removal Action Work Plan (RAW) for the removal of 27 discrete areas of soil impacted with constituents of concern (COCs) totaling approximately 226 cubic yards ($yd^3$) at the San Pedro High School Comprehensive Modernization Project (CMP) located at 1001 W. 15th Street (Site) in the community of San Pedro, city and county of Los Angeles, California (Figure 1). The COCs for the Site are based on previous investigations and include arsenic, lead, and organochlorine pesticides (OCPs). EnSafe Inc. prepared this RAW on behalf of the Los Angeles Unified School District (LAUSD) Office of Environmental Health and Safety (OEHS).

To achieve the CMP, LAUSD is proposing to demolish the Industrial Arts Building, Shop Building, and 10 portable buildings on the western portion of the campus (Figure 2). The existing Home Economics Building, Administration/Classroom Building, Physical Education Building, and Classroom Building 1 will experience modernization, which includes updated heating, ventilation, and air conditioning (HVAC) systems. These buildings will remain in place with no earth moving activities, and therefore, are excluded from the Removal Action (RA). The CMP has no planned activities for the Gymnasium Building, Girls Gymnasium, or Classroom Building 2 and these buildings are also excluded from the RA.

The RA described in this RAW is based on the results of a Preliminary Environmental Assessment-Equivalent (PEA-E) prepared by EnSafe, dated August 30, 2017. The RAW provides the engineering plan for conducting the selected RA for each COC and the goals to be achieved, as required by the California Health and Safety Code section 25323.1. The RAW was also prepared in general accordance with California Health and Safety Code section 25356.1(h). Furthermore, to demonstrate the necessity of a RAW, a human health risk screening evaluation based upon the data collected during the PEA-E was done. Consistency with these regulations is limited in instances where delineation of the COCs cannot be achieved due to construction and access limitations. In addition, the regulatory agency oversight aspects of these regulations is not being conducted at this time, but may be considered in the future.

### 1.1 Removal Action Objectives

Removal Action Objectives (RAO) are established to protect human health and the environment. RAOs are based on Site-specific media of concern, COCs, exposure routes and receptors, and acceptable contaminant levels or range of contaminant levels for each exposure route. The medium of concern for the Site is arsenic, lead, and OCP impacted soil. Based on the results of the

PEA-E, groundwater and surface water are not impacted and therefore are not complete exposure pathways at the Site.

The overall RAO of this RAW is to remove soil that contains arsenic, lead, and OCPs at concentrations above the site-specific cleanup goals (SSCG) established for arsenic at 12 milligrams per kilogram (mg/kg), lead at 80 mg/kg, chlordane at 0.44 mg/kg, and dieldrin at 0.034 mg/kg. LAUSD-OEHS has elected to use soil screening values as the SSCGs for the San Pedro High School modernization project. In accordance with the Department of Toxic Substance Control (DTSC) protocol, the school receptors were considered to be in a residential exposure scenario. The rationale for these SSCGs is discussed further in Section 4.1. To achieve these RAOs, the following steps will be completed:

- Evaluate and select an appropriate RA alternative.
- Minimize potential for migration of chlordane in soil to other media (e.g., air and surface water).
- Remove soil with arsenic, lead, chlordane, and dieldrin concentrations above SSCGs.
- Collect soil samples to confirm that the affected soil has been removed.
- Compare confirmation sample results to the SSCGs and conduct additional removal, as needed. The removal of impacted soil and achievement of the RAO will be limited in areas where construction or utility conflicts prohibit further excavation.

## 2.0 SITE BACKGROUND

The following sections present background information such as the location, description, physical setting, and previous Site actions. This information was collected from sources such as the Phase I Environmental Site Assessment (ESA) and PEA-E that have previously been prepared for the Site.

### 2.1 Site Location and Description

The following sections describe the Site location and historical background information.

#### 2.1.1 Site Name and Address

The San Pedro High School campus is addressed 1001 W. 15th Street, San Pedro, California 90731 (Figure 1). The campus consists of an irregularly-shaped parcel that is bordered by W. 15th Street and W. 14th Street to the north, Dana Middle School (1501 S. Cabrillo Avenue) to the east, W. 17th Street to the south, and S. Leland Street to the west. The campus is located in the community of San Pedro, within the city and county of Los Angeles (Figure 1). Ten permanent buildings, nine portable classrooms, and a storage bunker make up the remaining Site buildings. Other improvements include a baseball field, football field, softball field, and parking lot.

As noted in Section 1, the CMP will be limited to, or not include, interior improvements for the following buildings: Home Economics Building, Administration/Classroom Building, Physical Education Building, Classroom Building 1, Gymnasium Building, Girls Gymnasium, and/or Classroom Building. These buildings and their immediate vicinity are excluded from the RA.

This RAW is limited to the areas where soil sampling was conducted during the PEA-E in the proposed areas of demolition at 10 portable structures or outbuildings along with the Industrial Arts building, Shop building, and Girls Gymnasium. Based on the maps provided by LAUSD-OEHS, the following identifiers were used for the buildings:

- AA-244 (Portable)
- AA-347 (Portable)
- AA-2384 (Portable)
- AA-2383 (Portable)
- Lunch Shelter
- Flammable Storage (Portable)
- Unnamed Classroom
- BB-182 (Portable)

- AA-2082 (Portable)
- Shop
- Unnamed Portable
- Industrial Arts
- Girls Gymnasium

The individual buildings are shown on Figures 3 through 9. Surface conditions around these buildings predominantly consist of asphalt pavement. Some areas have concrete pavement, or are located in unpaved landscape areas.

### 2.1.2 Contact Person, Mailing Address, and Telephone Number

Information regarding this RAW and/or the San Pedro High School project should be directed to Mr. Dane Robinson at LAUSD-OEHS. Mr. Robinson can be reached by phone at (213) 241-4122, or by mail:

Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017

Mr. Jay Nager is the Complex Project Manager for the Site and can be reached at the office line of (310) 808-1510.

### 2.1.3 Environmental Protection Agency Identification Number and Regulatory Identification Numbers

The United States Environmental Protection Agency (U.S. EPA) Identification Number for hazardous waste disposal at the Site is CAD982022642.

There are no active or historical case numbers listed for the Site on the DTSC EnviroStor or the State Water Resources Control Board GeoTracker internet databases.

### 2.1.4 Assessor's Parcel Numbers and Maps

The San Pedro High School campus is comprised of the Los Angeles County Assessor's Parcel Number 7458 024-918. The PEA-E and RAW activities are limited to the areas of the CMP.

### 2.1.5 Ownership

The San Pedro High School Campus is owned by LAUSD.

### 2.1.6 Geographic Coordinates

Approximate geographic coordinates at the entrance to San Pedro High School, adjacent to W. 15th Street, are 33.7303° North latitude and -118.2993° West longitude.

## 2.2 Operational History and Status

Based on the historical sources review as reported by the Clark Seif Clark, Inc. (CSC) Phase I ESA, dated June 7, 2016, there were no identified uses of the Site until the construction of several residential structures between 1923 and 1925. CSC stated that the land for the present day campus was acquired by LAUSD beginning in 1934 and continuing until 1969. Former owners of portions of the property included the Board of Water and Power Commissioners of the City of Los Angeles and the Southern California Gas Company. The high school was constructed sometime after 1935.

CSC conducted a review of historical sources, regulatory agency records, and current Site conditions to provide information regarding hazardous materials and wastes at the Site. South Coast Air Quality Management District air quality permits indicated the presence of a spray booth in 1980 and storage of more than 50 pounds of refrigerant in 2012. The City of Los Angeles Fire Department records included waste stream and hazardous materials storage lists for 2010 and 2012. The waste streams generally consisted of science classroom wastes (lab pack, formaldehyde), clarifier sludge from the Auto Shop, used oil and flammable liquids from the Auto Shop, asbestos, fluorescent light tubes, and flammable solids. Hazardous materials listed in the City of Los Angeles Fire Department records included flammable liquids and solids, photo development waste silver, caustics, clarifier waste, universal wastes, flooring finish, paint, and fuels (diesel and gasoline in quantities less than 55 gallons). Chemicals noted to be on the Site during the CSC reconnaissance included photographic fixer, chemistry lab chemicals, paint, cleaning supplies, and diesel and gasoline fuels. No spills were reported by CSC.

## 2.3 Topography

The Site is shown on the U.S. Geological Survey, Torrance, California, 7 1/2 minute topographic quadrangle (U.S. Geological Survey 2012) at an elevation ranging from approximately 120 to 200 feet above mean sea level. The topography in the Site vicinity slopes moderately to the east and west.

## 2.4 Geology and Hydrogeology

The following sections discuss the Site-specific geologic and hydrologic setting.

### 2.4.1 Site Geology and Soil Types

Review of geologic and hydrogeologic references was beyond the scope of work of this report. Soil conditions observed during the PEA-E sampling activities, to a depth of eight feet below ground surface, were characterized by sand and silty sand. The CSC Phase I ESA provided the following description of the geologic setting.

*According to the EDR Geophysical Setting Report, the Subject Property lies in an area where the general geologic formation is of the Cenozoic era, Tertiary system, Eocene series. The dominant soil composition in the general area of the Subject Property is of the Calleguas series with a clay loam texture within the top 16 inches. This soil group is classified as Class D with very low infiltration rates. The soil drainage class is described as well drained and does not meet the requirements for a hydric soil. The corrosion potential for uncoated steels in this type of soil is listed as high. The depth to bedrock is approximated to be between 8 and 20 inches.*

*Alquist-Priolo Earthquake Fault Zones are regulatory zones that encompass surface traces of active faults that have a potential for future surface fault ruptures that would impact existing or future structures. The nearest fault is approximately 1.5 miles away (Palos Verdes Fault Zone) in the Transverse Ranges and Los Angeles Basin region. This is not an Alquist-Priolo Earthquake Fault Zone. (http://zimas.lacity.org).*

### 2.4.2 Site Hydrogeologic Settings

The CSC Phase I provided the following summary of the hydrogeologic setting.

*Groundwater flow direction is southeast towards the Pacific Ocean. Approximate measured depth to water is 15 to 16 feet. The nearest hydrogeological information comes from a site one-half to one mile east of the Subject Property where there are four aquifers: the semi-perched; Gage; Lynwood; and the Silverado. The unconfined semi-perched and underlying Gage aquifers are separated by the Bellflower aquiclude (EDR GeoCheck Report, 2016).*

## 2.5 Surrounding Land Use and Sensitive Ecosystems

Land uses in the vicinity of the campus are predominantly single-family or multi-family residential. Limited commercial/retail uses are present approximately 1,000 feet to the east of the Site along South Grand Avenue.

## 2.6 Regional Radon Information

LAUSD developed a Radon Zones map dated April 26, 2016, which is based on radon data by ZIP Code obtained from the California Department of Public Health Indoor Radon Program, dated February 26, 2016. According to the map, the San Pedro High School campus is located in a Moderate Potential Radon Zone. Based on a review of the California Geological Survey, Radon Potential in Palos Verdes Area, California document, dated 2012, these hazard categories correspond to the percentage of homes that are likely to be equal to or greater than the U.S. EPA recommended radon action level of 4.0 picocuries per liter (pCi/L). The categories used were: high (greater than or equal to 20 percent of homes), moderate (greater than or equal to 5.0 to 19.9 percent of homes), low (less than 5 percent of homes), and unknown (for geologic units with few or no data).

Radon gas sampling was conducted prior to and as part of the PEA-E. Further information regarding these activities is provided in Section 2.7.3.2 of this report.

## 2.7 Previous Site Actions

The following sections summarize the environmental activities that have been performed at the Site.

### 2.7.1 Phase I Environmental Site Assessment

A Phase I ESA was prepared by CSC, and dated June 7, 2016 (CSC 2016a). The Phase I ESA (CSC 2016a) for the school found the following recognized environmental condition and recommendation:

- *There is a clarifier associated with the operation of an auto shop that was located in one of the buildings scheduled for demolition. Further investigation of the soil in the location of the clarifier is warranted.*

In addition to the recognized environmental condition, the following items of concern and recommendations were provided by CSC:

- *Based on the possibility of the historic use of termiticides, herbicides including arsenic, pesticides, PCBs in caulking and lead-based paint, CSC recommends that surficial soils in the construction area be sampled.*

- *Mitigation measures for radon intrusion [should] be implemented. Surveys previously conducted by LAUSD confirmed its presence. This finding is an indoor air quality concern.*

- *There are decommissioned DWP transformers in the vault in the basement of the administration building that might contain PCBs.*

### 2.7.2 Asbestos and Lead Survey

Asbestos and lead-based paint survey reports were not provided for review. Abatement of asbestos and lead-based paint at the time of building demolitions will be addressed separately from the RAW.

### 2.7.3 Preliminary Endangerment Assessment Equivalent

EnSafe prepared a PEA-E in accordance with a PEA-E Workplan and Soil and Radon Sampling Plan that was prepared by CSC and dated June 22, 2016 (CSC 2016b). This report was further supplemented by information in the referenced Phase I ESA prepared by CSC, and dated June 7, 2016 (CSC 2016a).

The purpose of the PEA-E was to evaluate soil in the proposed demolition areas for the presence of the potential contamination as described in the Phase I ESA. The scope of the soil evaluation was limited to the areas of demolition/construction and did not include the entire San Pedro High School campus. The scope of work provided by LAUSD-OEHS and the PEA-E do not address the potential presence of polychlorinated biphenyls (PCBs) in or around the electrical transformers described in the Phase I ESA. The PEA-E provided a limited evaluation of existing radon conditions in buildings selected for modernization. Soil and radon sampling are discussed in the following sections.

#### 2.7.3.1 Soil Sampling

The soil sampling and analysis program was comprised of 50 primary borings (SB1 through SB50), and 102 step-out soil borings. The step-out borings were advanced to assess the extent of arsenic, lead, or OCP concentrations that exceeded the DTSC screening levels. The lateral and vertical extent of arsenic, lead, and OCP concentrations were defined in some areas by step-out and step-down samples. In areas where vertical delineation was not available, the delineation was deferred to confirmation sampling associated with the RA. Soil sampling was also discontinued in areas with subsurface utility conflicts and hillslopes. The delineation of arsenic, lead, and OCPs was not achieved in these areas.

The soil sample analytical results reported indicate that the contaminants of potential concern, polychlorinated biphenyls, total petroleum hydrocarbons, and volatile organic compounds (VOC), were not detected above their respective screening thresholds within the project area.

Thus, they were not anticipated to pose an unacceptable health risk by either inhalation, ingestion, or dermal contact during planned excavation or construction activities.

Soil sampling and step-out sampling analytical results indicated that arsenic, lead, and/or OCP concentrations exceeded the health-based screening levels at 27 surficial soil locations. Of the 27 areas, 17 were impacted with arsenic, 10 were impacted with lead, and 5 were impacted with OCPs (chlordane or dieldrin) above the screening levels. There were five locations where two or more compounds exceeded their respective screening levels.

Because the San Pedro High School CMP will disturb surficial soil at the 27 locations of concern, which could result in a pathway for exposure to students, faculty, or construction workers, EnSafe recommended soil removal and confirmation sampling in the areas of concern. After confirmation samples are obtained that show contaminants of potential concern below health screening levels for residential land use, no further action would be required.

#### 2.7.3.2 Radon Gas Sampling

Radon gas sampling was conducted as part of the PEA-E. Prior to the PEA-E, previous radon measurements had been conducted at the San Pedro High School Campus. LAUSD-OEHS provided EnSafe with a Radon Measurement Survey, prepared by Alta Environmental and dated March 8, 2016. The testing results included radon concentrations above the U.S. EPA recommended action level of 4.0 pCi/L at two of the 18 locations. These included 4.7 pCi/L in Room 150-Storage and 8.5 pCi/L in the closet under the stairs (the former electrical closet). Radon measurements from the second floor of the building were below 4.0 pCi/L; however, the concentration of 2.9 pCi/L in Classroom 253 was considered unusual for a location above the ground floor.

Based on the radon measurements, Alta recommended retesting of selected areas as well as testing of the remaining buildings at the campus. Radon resistant construction design was further recommended by Alta for the new elevator installation, as well as new building additions.

EnSafe conducted limited radon testing in the areas specified by LAUSD-OEHS, which included the Administration Building, Classroom Building, Physical Education Building, and Home Economics Building. A total of 28 short term and 5 quality control Liquid scintillation radon sampling devices were deployed by in August 2016.

Radon testing results reported concentrations ranging from below the reporting limit of 0.2 pCi/L up to 3.9 pCi/L in the subject building. The highest radon concentration of 3.9 pCi/L was found in

Room 231 of Classroom Building 1. The sample from the Cafeteria in the Home Economics Building was flagged with a recommendation for additional testing, due to the doors being open at the time of the sample retrieval.

Radon sample results collected from the subject buildings were below the U.S. EPA action level of 4.0 pCi/L. However, previous testing provided by LAUSD-OEHS showed elevated radon levels in Classroom Building 1 and retesting was recommended. Based on the previous results, and because the EnSafe testing was restricted to four buildings, the EnSafe PEA-E recommended that LAUSD consider additional testing and/or radon mitigation prior to the design and construction of the San Pedro High School CMP.

EnSafe also noted that modernization of four buildings would include upgrades to the HVAC, and suggested that the results of radon testing be used to evaluate whether radon concentrations can be mitigated through appropriate ventilation and air exchange rates.

### 2.7.4 Additional Sampling — Post PEA-E

EnSafe collected additional surficial soil samples on June 25, 2017, to evaluate the hazardous waste characteristics for lead in areas recommended for removal in the PEA-E. The samples were analyzed for soluble lead following preparation by the Waste Extraction Test, and/or the Toxicity Characteristic Leaching Procedure (TCLP). Waste Extraction Test lead results were used for comparison to the Soluble Threshold Limit Concentration of 5 mg/L, which is the California limit for hazardous waste. The TCLP of 5 mg/L is the federal limit for Resource Conservation and Recovery Act (RCRA) hazardous waste. Based on the soluble lead testing, four areas (SB3, SB7, SB23, and SB34) exceeded the Soluble Threshold Limit Concentration (STLC). The laboratory analytical results, for the soluble lead testing, are provided in Appendix A. Hazardous waste classification is discussed further in Section 7.3.3 and summarized in Table 3.

## 3.0 NATURE, SOURCE, AND EXTENT OF CONTAMINANTS

This section describes the location, extent, and potential health effects of arsenic, lead, and OCPs in soil.

### 3.1 Type, Source, and Location of Contaminants

As noted in the CSC Phase I ESA and the PEA-E scope of work, multiple potential sources could have resulted in a release of hazardous substances to the environment. A clarifier associated with the operation of an auto shop program was identified as having the potential to impact soil with petroleum hydrocarbons, VOC, and PCBs. Pad mounted electrical transformers were identified as a potential source of PCBs in shallow soil, on the south side of the Girls Gymnasium. However, the clarifier and pad mounted electrical transformer areas were eliminated from further action because soil sampling results showed concentrations below the screening thresholds.

Potential surficial soil impacts around the buildings were identified due to the following: prior use of organochlorine compounds and arsenic (herbicides, termiticides, or other pesticides); PCBs due to their potential presence in caulking; and, lead due to the weathering of lead-based paint.

Use of OCPs as a termiticide has been known to result in significant concentrations around structures with wood components built prior to January 1, 1989. Arsenic may also be associated with direct application of pesticides. Weathering, scraping, chipping, and abrasion of potential PCB caulking or lead-based paint surfaces may cause these contaminants to be released and accumulate in soil around project area structures.

### 3.2 Extent and Volume of Contamination

Analytical results indicated that arsenic, lead, and/or OCP concentrations exceeded the health based screening levels at 27 surficial soil locations. These compounds are considered COCs for the Site.

TPH concentrations were below preliminary screening values and VOCs were not detected in subsurface samples from the clarifier area. TPH and VOCs are therefore eliminated as Constituents of Potential Concern (COPCs) and no further action is warranted at the clarifier area. PCBs were not detected in surficial samples around the buildings or at the transformer near the Girls Gymnasium. PCBs are therefore eliminated as a COPC and no further action is warranted at the transformer area. Of the 27 primary boring and step-out areas, 17 were impacted with arsenic, 10 were impacted with lead, and 5 were impacted with OCPs (chlordane or dieldrin) above the screening levels. The COPCs were adopted as COCs for the Site. There were four locations where two or more compounds exceeded their respective screening levels. A summary of the sample area exceedances is provided in the following table.

**Table 3-1**
**Sample Areas with Constituents of Potential Concern above Screening Levels**

| Area ID | Arsenic | Lead | OCPs | |
|---|---|---|---|---|
| | | | Chlordane | Dieldrin |
| SB1 | X | | | |
| SB3 | | X | | |
| SB4 | X | | | |
| SB6 | X | | | |
| SB7 | | X | | |
| SB8 | X | | | |
| SB9 | | X | | |
| SB11 | X | | | |
| SB15 | X | | | |
| SB17 | | X | | |
| SB18 | X | | | |
| SB19 | X | | | |
| SB22 | X | | | |
| SB23 | | X | | |
| SB25 | X | | X | X |
| SB26 | X | X | X | |
| SB27 | X | | | |
| SB29 | | | X | |
| SB30 | | | X | |
| SB31 | | X | X | X |
| SB34 | | X | | |
| SB36 | | X | X | |
| SB37 | X | | | |
| SB41 | X | | | |
| SB44 | X | | | |
| SB46 | X | X | X | |
| SB47 | X | | | |

***Notes:***
Area ID = Boring group location
OCP = Organochlorine pesticide

The lateral limits of impacts from arsenic, lead, and OCPs have been delineated at the 27 locations to the extent practicable, subject to limitations from architectural features, subsurface utilities, and hillslopes. The vertical extent of impacts have been delineated at 19 of the 27 surficial locations. LAUSD-OEHS elected to not collect additional step-down samples at the remaining eight locations,

and instead address these areas during this RA. A summary of the COCs, excavation limit rationale, and estimated volumes is provided in Table 3.

## 3.3 Health Effect of Contaminants

### Arsenic

Exposure to inorganic arsenic can cause various health effects such as irritation of the stomach and intestines, decreased production of red and white blood cells, abnormal heart rhythm, blood-vessel damage resulting in bruising, and impaired nerve function. Long term exposure can result in skin changes included darkened areas or "warts" on the palms, feet, and body. The prolonged exposure can also result in cancer. It is suggested that the uptake of significant amounts of inorganic arsenic can intensify the chances of cancer development, especially the chances of skin cancer, lung cancer, liver cancer, and lymphatic cancer (https://www.atsdr.cdc.gov/ToxProfiles/tp2-c1-b.pdf).

### Lead

Lead can be absorbed via the ingestion and inhalation pathways. Lead affects practically all systems within the body. Lead at high levels can cause convulsions, coma, and even death. Lower levels of lead can cause adverse health effects on the kidney, central nervous system, cardiovascular system, urinary system, reproductive system, and blood forming cells. Several studies have shown that low levels of lead in the blood can impair mental and physical development. The effects of lead exposure on fetuses and young children can be severe. They include delays in physical and mental development, reduced Intelligence Quotient (IQ) scores, reduced cognitive ability, decreased reading, spelling, mathematics and linguistic performance, decreased memory, decreased motor skills and coordination, shortened attention span, anxious/depressed behavior, and increased behavioral problems (Child-specific Benchmark change in blood Lead concentration for School Site Risk Assessment, OEHHA 2007). Additional evidence from studies in laboratory animals show that exposure to lead is associated with impaired learning and memory, decreased neurobehavioral development, and other defects similar to those seen in humans.

Fetuses, infants, and children are more vulnerable to lead exposure than adults since lead is more easily absorbed into growing bodies, and the tissues of small children are more sensitive to the damaging effects of lead. Children may have higher exposures since they are more likely to ingest soil, to get lead dust on their hands and then put their fingers or other lead-contaminated objects into their mouths.

The California Office of Environmental Health Hazard Assessment (OEHHA) chose IQ as the relevant toxicological indicator for exposure to lead because it is a widely measured, sensitive marker,

for neurodevelopmental effects of lead. Based on epidemiological studies, OEHHA developed a 1 microgram of lead per deciliter of blood (µg/dL) benchmark for the incremental change in blood lead levels for protection of school children and fetuses (OEHHA, 2007) (http://www.dtsc.ca.gov/LawsRegsPolicies/Regs/upload/20-Lead-and-compounds.pdf). OEHHA estimated that exposure to no more than 80 mg/kg lead in soil is protective of a 1 µg/dL increase in blood lead levels in children (https://oehha.ca.gov/media/downloads/crnr/leadchhsl091709.pdf).

**Chlordane and Dieldrin**

Chlorinated cyclodiene insecticides, which are structurally related by the same mechanism of action, include dieldrin and chlordane. Like dichlorodiphenyltrichloroethane compounds, the cyclodienes persist in the environment, and accumulate in fatty tissues of biologic organisms. The central and peripheral nervous systems are the target organs.

Headache, nausea, vomiting, dizziness, and mild chronic jerking are characteristic symptoms of exposure. Increased exposure can increase the severity of these symptoms and advance to convulsions. Exposure to dieldrin alters the dopamine system and increases neurotoxicity in an animal model of Parkinson's disease (http://www.fasebj.org/cgi/content/full/20/10/1695). The cyclodienes also can produce liver damage.

All three cyclodienes are carcinogens based on liver tumors observed in experimental animals. The non-carcinogenic reference doses assigned to the cyclodienes are based on the critical effect of pathologic changes in the liver and increased liver weight of experimental animals.

## 3.4 Targets Potentially Affected By the Site

As the Site will continue to operate as an active high school, human access to the Site will be generally unlimited. Therefore, Site occupants (students and faculty) could potentially be exposed to the contaminants in soil at the Site if capping remedial actions are not implemented.

During Site redevelopment, Site occupants, onsite workers, and offsite receptors could potentially be exposed to the COCs. The area surrounding the Site is mainly residential.

Following Site redevelopment, future Site users, workers, and surrounding residential receptors could potentially be exposed to the COCs unless appropriate preventative measures or remedial actions are implemented.

A conceptual site model that identifies the receptors, who may contact the COCs, and the exposure pathways through which they may contact the COCs, has been developed. A copy of the Conceptual Site Model is attached as Appendix B.

The 95% upper confidence limit concentrations of COCs in the post-remediation data sets (confirmation samples and PEA-E samples that remain in place) will be calculated to evaluate the concentration of these compounds remaining in place at the Site. Because the COCs may not be delineated and will remain in areas where utility or construction conflict are encountered, the 95% upper confidence limits will need to be used a part of the evaluation of potential future exposures.

## 4.0 CLEANUP GOALS

Based on the results of the PEA-E (EnSafe, 2017), arsenic, lead, and OCPs (chlordane and dieldrin) have been determined to be the COCs for the Site. Analytical results for the COCs can be found in Tables 1 and 2. Summaries of the SSCGs for these COCs are discussed below.

### 4.1 Site Specific Cleanup Goals

LAUSD-OEHS elected to use soil-screening values as the SSCGs for the San Pedro High School CMP. In accordance with DTSC protocol, the school receptors were considered to be in a residential exposure scenario.

#### 4.1.1 Arsenic

**SSCG:** 12 mg/kg

The DTSC has established a regional background concentration for arsenic in the soil, for use as a screening tool (DTSC, undated). The background concentration does not distinguish between residential and commercial/industrial use scenarios. Based on their statistical analysis of arsenic data points, attributed to both naturally occurring and anthropogenic sources, the DTSC's upper bound estimate (95th percentile) for background arsenic concentrations in Southern California is 12 mg/kg.

#### 4.1.2 Lead

**SSCG:** 80 mg/kg

The California Environmental Protection Agency (Cal/EPA) OEHHA developed a source-specific benchmark incremental change of blood lead concentration of 1 µg/dL for school children and fetuses. This benchmark estimates the incremental increase in children's blood lead level would reduce their IQ by up to 1 point. Based on this approach, Cal-EPA established a preliminary remediation goal (action level) of 80 mg/kg for lead in soil (Cal/EPA, 2009). This standard represents the concentration of lead in soil that will result in a 90th percentile estimate of a 1 µg/dL increase in blood lead in the most sensitive receptor (i.e., child or fetus).

The Cal/EPA action level has been adopted by DTSC. The DTSC Human Health Risk Assessment Note 3 — DTSC-Modified Screening Level (DTSC-SL), dated June 2016, for Residential Soil, establishes a threshold of 80 mg/kg.

### 4.2 Organochlorine Pesticides

**Chlordane SSCG:** 0.44 mg/kg

The DTSC-SL for chlordane in residential soil is 0.44 mg/kg.

**Dieldrin SSCG:** 0.034 mg/kg

Dieldrin is not listed as having a DTSC-SL. The SSCG was therefore established to be consistent with the most recent version of the U.S. EPA Region 9 Regional Screening Level.

## 5.0 ENGINEERING EVALUATION/COST ANALYSIS

This section identifies and evaluates possible RA alternatives that may be used to achieve the RAOs. The screening of RA alternatives was performed in general accordance with the U.S. EPA Guidance on Conducting Non-Time-Critical Removal Actions under the Comprehensive Environmental Response Compensation and Liability Act. Therefore, RA alternatives were screened based on their effectiveness, implementability, and cost.

### 5.1 Identification and Screening of Removal Action Alternatives

The purpose of this section is to identify and screen possible RA alternatives. Each of the RA alternatives is screened based on effectiveness, implementability, and cost, as defined below:

- Effectiveness — this criterion focuses on the degree to which a RA reduces toxicity, mobility, and volume through treatment; minimizes residual risk and affords long-term protection; minimizes short-term impacts; and how quickly it achieves protection.

- Implementability — RAs are evaluated with respect to technical feasibility and applicability to Site conditions. Some examples of this criterion include the ability to obtain necessary permits, regulatory approval of RA, and availability of necessary materials, equipment, and skilled workers.

- Cost — This criterion relates to relative cost screening based on approximate capital, operational, and maintenance expenditures.

Screening of several technology types using the above criteria was conducted to select RAs for further evaluation. Based on this screening, the three RA alternatives are as follows:

- Alternative 1 — No Action
- Alternative 2 — Containment through Surface Capping
- Alternative 3 — Excavation and Off-Site Disposal

Each of these RA alternatives is described in Section 5.2. Other RA alternatives were identified and considered for implementation at the Site but were eliminated based on past experience at similar Sites and on engineering judgment indicating they would be ineffective in achieving the RAO or could not be implemented in a cost-effective manner. These methods include soil washing, asphalt incorporation, in-situ vitrification, in-situ thermal destruction, and others.

## 5.2 Evaluation of Removal Action Alternatives

This section provides a description of each RA alternative selected for evaluation. Rationale for the selection of each alternative for evaluation, and a description of the technology as it applies to this Site, is also provided. This section also provides an evaluation of each removal alternative compared to the criteria for feasibility studies defined in 40 Code of Federal Regulations Section 300.430 (e) (9) (iii) of the U.S. EPA National Oil and Hazardous Substances Pollution Contingency Plan. These criteria are identified and described below.

- **Short-term effectiveness** — This criterion evaluates the effects of the removal alternative during the construction and implementation phase until remedial objectives are met. It accounts for the protection of workers and the community during remedial activities and environmental impacts from implementing the action.

- **Long-term effectiveness and permanence** — This criterion addresses issues related to the management of residual risk remaining on the Site after an RA has been performed and has met its objectives. The primary focus is on the controls that may be required to manage risk posed by treatment residuals and/or untreated wastes.

- **Reduction of toxicity, mobility, or volume** — This criterion evaluates whether the remedial technology employed results in significant reduction in toxicity, mobility, or volume of the hazardous substance.

- **Implementability** — This criterion evaluates the administrative and technical feasibility of the alternatives, as well as the availability of the necessary goods and services. This includes the ability to construct and operate an alternative, ability to obtain services and equipment, ability to monitor the performance and effectiveness of technologies, and the ability to obtain necessary approvals from agencies.

- **Overall protection of human health and the environment** — This criterion evaluates whether the removal alternative provides adequate protection to human health and the environment.

- **Cost** — This criterion involves capital and operation and maintenance costs, and is based on a variety of factors. The actual costs will depend on true labor and material cost, competitive market conditions, final project scope, and implementation schedule.

- **Community Acceptance** — This criterion involves consideration of the likelihood of community acceptance or concerns regarding implementation of a particular removal alternative.

The following sections present a description of each alternative and an evaluation of the alternatives with respect to the criteria.

### 5.2.1 Alternative 1 — No Action

In accordance with National Oil and Hazardous Substances Pollution Contingency Plan and the Comprehensive Environmental Response Compensation and Liability Act, as amended, Alternative 1 has been included to provide a baseline comparison to other remediation alternatives. This alternative does not include institutional controls, treatment of soil, or monitoring. No cost is associated with this alternative.

The following paragraphs present an evaluation of this alternative with respect to the feasibility criteria.

- **Short-term effectiveness** — The No Action alternative would allow for the disturbance of soil without any controls during future Site grading. It poses the greatest potential for short-term risk to Site workers or the community. Additionally, this alternative does not meet the RAOs.

- **Long-term effectiveness and permanence** — because RAs are not undertaken and clean-up objectives are not achieved, long-term effectiveness and permanence are not achieved, and risks are not reduced.

- **Reduction of toxicity, mobility, or volume —** because RAs are not undertaken, toxicity, mobility, and volume are not reduced.

- **Implementability** — Because RAs are not undertaken, technical feasibility is achievable.

- **Overall protection of human health and the environment** — Reduction in human health risk is not achieved because soil impacted with COCs exceeding the cleanup objectives is not removed.

- **Cost** — There is essentially no cost in implementation of this alternative. The estimated costs for implementation of all three alternatives are summarized in Section 5.3.

- **Community Acceptance** — Because cleanup objectives are not achieved and human health risk is not reduced; the community would not be expected to accept this alternative.

### 5.2.2 Alternative 2 — Containment through Surface Capping

Containment treatment, as implemented at the Site, would consist of capping the surface of the impacted areas with an engineered soil cover and/or membrane. The cap would be used to minimize surface exposure. The following paragraphs present an evaluation of this alternative with respect to the feasibility criteria.

- **Short-term effectiveness** — The containment alternative would involve some disturbance of the COC-impacted soil during placement of the surface cap. Therefore, potential short-term risks to onsite workers, public health, and the environment could result from dust or particulates that may be generated during these activities. These risks could be mitigated using personal protective equipment for on-Site workers and engineering controls, such as dust suppression and additional traffic and equipment operating safety procedures, for protection of the surrounding community. The short-term risks associated with this alternative would be low to moderate. It should be noted that the short-term effectiveness could be negatively impacted by the proposed construction activities for the modernization project. Re-grading for buildings or pavement preparation, or installation of subsurface utilities, would need to be planned to avoid or manage soil from the containment areas.

- **Long-term effectiveness and permanence** — The installation of a surface cap would require long-term inspection and maintenance. Periodic inspections for settlement, ponding of liquids, erosion, and naturally occurring invasion by deep-rooted vegetation or burrowing animals, would be required. In addition, precautions would have to be taken to ensure that the integrity of the cap is not compromised by land use activities. Based on these factors, the effort required to ensure long-term effectiveness is considered high.

- **Reduction of toxicity, mobility, or volume** — Containment through surface capping would not lessen toxicity or volume of the COCs, but would limit mobility, specifically the surface accessibility of the contaminants.

- **Implementability** — Containment is a relatively simple technology, which offers a quick installation, and is easily implemented. Because of the permanence of leaving the COCs on the Site, obtaining and renewing permits and regulatory approval can be difficult in some situations.

- **Overall protection of human health and the environment** — The overall protection of human health is good, provided the long-term operations and maintenance is continued.

- **Cost** — Containment technologies are typically a low to moderate cost treatment group. Even with long-term operation and maintenance requirements, containment treatments can be considerably more economical than excavation and removal of large-scale waste sites. Landfill caps are generally the least expensive way to manage human health and ecological risks effectively. Rough industry costs are $175,000 per acre for RCRA Subtitle D, and $225,000 per acre for RCRA Subtitle C. The existing surface area that would need to be capped for the areas of COC-impacted soil encompasses less than one acre, but is split into 27 distinct areas. A summary of the estimated costs to implement this alternative is presented in the table in Section 5.3.1.

- **Community Acceptance** — Because the Site operates as a high school, the local community would not be expected to accept this alternative.

### 5.2.3 Alternative 3 — Excavation and Off-Site Disposal

The Excavation and Off-Site Land Disposal alternative would consist of removing and transporting COC-impacted soil to an approved offsite disposal facility. It is anticipated that pretreatment of the affected soil would not be required to meet possible land disposal restrictions. The following paragraphs present an evaluation of this alternative with respect to the feasibility criteria.

- **Short-term effectiveness** — Potential short-term risks to onsite workers, public health, and the environment could result from dust or particulates that may be generated during excavation and soil-handling activities. These risks could be mitigated using personal protective equipment for onsite workers and engineering controls, such as dust suppression and additional traffic and equipment operating safety procedures, for protection of the surrounding community. The short-term risks to workers and the surrounding community during modernization activities would also be reduced. The short-term risks are low to moderate.

- **Long-term effectiveness and permanence** — Excavation and disposal would remove the COCs from the Site and therefore eliminate the long-term risk. This results in meeting the RAO.

- **Reduction of toxicity, mobility, or volume** — although entirely removed from the Site, excavation, and offsite land disposal does not result in the reduction of toxicity or volume of the COCs. By placing the impacted soil in an engineered landfill suitable for receiving the concentrations of contaminants detected, the mobility of the COCs will be reduced.

- **Implementability** — Excavation and offsite disposal is a well-proven technology that is a common method for cleaning up hazardous waste sites. It is a relatively simple process with proven procedures. Equipment and labor required to implement this alternative are uncomplicated and readily available. The shallow depths of the anticipated contamination make excavation readily implementable. It is also anticipated that this alternative would have regulatory acceptance.

- **Overall protection of human health and the environment** — This alternative reduces the potential risks from the COC at the Site and results in meeting the RAO. Consequently, it is considered protective of human health and the environment.

- **Cost** — Cost estimates for excavation, transportation, and disposal range from $100 to $200 per ton depending on the methods of excavation and hazard classification of soil being disposed. These estimates include excavation, removal, transportation, and disposal at an approved facility. The estimated tonnage for excavation and disposal included in this RAW is approximately 509 tons. A summary of the estimated costs to implement this alternative is presented in the table in Section 5.3.1.

- **Community Acceptance** — because impacted soils would be permanently removed from the Site, community acceptance is expected. There is the potential for minor temporary inconvenience to the immediate community from the increased number of trucks used to transport the soil for offsite disposal.

## 5.3 Evaluation of Removal Action Alternatives

This section provides a comparative evaluation of the three removal alternatives based on the eight criteria presented in Section

### 5.3.1 Qualitative Discussion of Alternatives

The following provides a comparative discussion of the eight criteria of each removal alternative:

- **Short-Term Effectiveness** — Each of the alternatives has the potential for the disturbance of surface soil that may contain COCs. The No Action alternative would allow for the disturbance of soil without any controls during future Site modernization; it also may allow for exposure by students attending the school. It poses the greatest potential for short-term risk to students, Site workers, or the community. Both the Containment and the Excavation and Disposal alternatives will involve some disturbance of surface soil. The Excavation and Disposal alternative would require removing, handling, and transporting the impacted soil, resulting in higher potential short-term exposure risks to the COC than Containment. However, it is expected that these risks can be sufficiently mitigated through control measures for both these alternatives.

- **Long-Term Effectiveness and Permanence** — Under the No Action alternative, the impacts due to the COC would not be addressed. Consequently, there would be no reduction in the potential risks, and the RAOs would not be satisfied. The Containment and Excavation alternatives respectively reduce or eliminate potential exposure to the COCs and therefore satisfy the RAOs. Once implemented, the Containment alternative would require long-term monitoring to ensure its effectiveness. In addition, future changes in land use could disturb the soil. The Excavation and Off-Site Land Disposal alternative would remove the COCs from the Site to levels below the RAOs and would not require any further management or Site controls.

- **Reduction of Toxicity, Mobility, or Volume** — The No Action alternative does not result in reducing the toxicity, mobility, or volume of the COCs present at the Site. Implementing the Containment alternative would not reduce toxicity or volume but could reduce mobility (the cap would prevent surface water infiltration and downward migration of the COCs and prevent ready access to soil containing the COCs). The Excavation alternative would also not reduce toxicity or volume but would reduce mobility (the COCs would be contained within an engineered landfill suitable for the placement of this type of waste).

- **Implementability** — All three alternatives are technologically feasible and easily implemented. However, the No Action alternative and Containment alternative are not easily implemented administratively because it would be difficult to obtain the necessary regulatory permits and agency approval to leave the COCs in place at the Site.

- **Overall Protection of Human Health and the Environment** — The No Action alternative would not result in any reduction in the potential risk associated with the COCs at the Site; therefore, the RAOs would not be met. The Containment and Excavation alternatives both meet the RAOs and are protective of human health and the environment. However, the Excavation alternative is favored because it would eliminate the risk of long-term exposure to the COCs at the Site, whereas the Containment alternative would only reduce risk.

- **Cost Effectiveness** — A summary of estimated costs to implement the proposed alternatives is presented in the following table.

**Table 5-1**
**Summary of Estimated Costs**

| Cost Type | Removal Action Alternative | | |
|---|---|---|---|
| | **No Action** | **Containment [b]** | **Excavation and Disposal** |
| **Capital Costs** | | | |
| Equipment Costs | $0 | $100,000 | $15,000 |
| Material Costs | $0 | $50,000 | $5,000 |
| Transport Costs | $0 | $0 | $30,000 |
| Labor Costs | $0 | $35,000 | $20,000 |
| Disposal Costs[a] | $0 | $0 | $30,000 |
| **Direct Costs** | | | |
| Engineering and Design Expenses | $0 | $35,000 | $10,000 |
| License and Permitting Costs | $0 | $15,000 | $0 |
| **20-Year Operations and Maintenance Costs** | | | |
| Operation and Maintenance Costs[c] | $0 | $160,000 | $0 |
| **Total** | **$0** | **$395,000** | **$110,000** |

***Notes:***

A = Assumes soil is non-hazardous and California-hazardous, and not Resource Conservation and Recovery Act-hazardous waste

B = Because of the small area of impacted soil at the Site, a 1-acre containment area is used to estimate costs.

C = Operation and maintenance cost assumes an annual post-containment action cost of $6,000 amortized over 20 years at an annual escalation rate of 3 percent, for a total of $160,000.

- **Community Acceptance** — The No Action alternative would not achieve the RAOs and, therefore, would not likely receive community acceptance. Although the Containment alternative is feasible, it is unlikely to receive community acceptance, because it would restrict land use at the Site and its comparative cost. The Excavation with Off-Site Land Disposal alternative would likely receive community acceptance because it removes the COCs from the Site and eliminates long-term exposure.

### 5.3.2 Comparative Ranking

A numerical ranking of alternatives based on the degree to which each alternative satisfies the evaluation criteria has been prepared. This analysis is based on numerical rankings that assign values described below.

- A value of "3" is awarded if the alternative satisfies essentially all the elements of the evaluation criteria.

- A value of "2" is awarded if the alternative satisfies some of the elements of the evaluation criteria.

- A value of "1" is awarded if the alternative satisfies few or essentially none of the elements of the evaluation criteria.

With respect to cost, values are assigned relative to the lowest (3) to highest (1) total estimated cost (present value, where applicable). Alternatives with comparable overall performance are assigned the same value. Absent other controlling factors, the removal alternative with the highest total rating (score) is considered the most appropriate.

Based on the discussion provided above, score values for each of the criteria were assigned as shown in the following table.

**Table 5-2**
**Comparative Ranking of Removal Alternatives**

| Criteria | Alternative 1<br>No Action | Alternative 2<br>Containment through Surface Cap | Alternative 3<br>Excavation with Off-Site Land Disposal |
|---|---|---|---|
| Short-term Effectiveness | 1 | 2 | 2 |
| Long-term Effectiveness and Permanence | 1 | 2 | 3 |
| Reduction of Toxicity, Mobility, and Volume | 1 | 2 | 2 |
| Implementability | 3 | 2 | 3 |
| Overall Protection of Human Health and the Environment | 1 | 2 | 3 |
| Cost | 3 | 1 | 2 |
| Community Acceptance | 1 | 1 | 3 |
| **Total Score** | **11** | **12** | **18** |

## 5.4 Recommended Removal Action Alternative

Based on the RA selection process conducted herein, the Excavation and Off-Site Disposal to Land alternative is the preferred RA to address the COCs present in the surface soil at the RA area. This alternative was selected because it was determined to be effective, implementable, and reasonably cost effective, as discussed below. In addition, the components of the preferred RA alternative complies with the Applicable or Relevant and Appropriate Requirements (ARAR). The ARARs for the preferred RA alternative are summarized in Section 6.

In summary, this alternative was selected for the following reasons:

- The short-term effectiveness and implementability of this alternative is high. Potential risks are readily mitigated by the proper use of personal protective equipment, adherence to procedures outlined in the Health and Safety Plan (HASP), and other engineering controls, such as water sprays, to mitigate fugitive dust generated during excavation, loading, and transportation.

- The selected technology has a high long-term effectiveness and reliability.

- The selected RA will result in the elimination of toxicity and volume of COCs at the Site through excavation and offsite disposal of the impacted soil.

- The alternative is effective, permanent and protective of human health and safety and the environment.

## 5.5 Description of Selected Remedy

The selected alternative, Excavation and Off-Site Land Disposal, will include the excavation of shallow, impacted soil from the RA Area. Information regarding the location and estimated volume of impacted soil is presented in Section 3.2.

# 6.0 APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS

This section discusses selected ARARs associated with this RAW.

## 6.1 Public Participation

Public participation is an important component to the development and implementation of the RAW. The following sections describe the public participation aspects of the RA.

### 6.1.1 Previous Public Participation

Prior to the PEA-E field activities, Pre-Work Notices in both English and Spanish were provided to members of the community located near the campus. In July 2016, copies were sent to the homes of 2,391 students who attend San Pedro High School. Approximately 200 copies of the notice were also delivered to homes and properties that border the San Pedro High School campus. Laminated copies of the Pre-Work Notices were posted on each side of the campus.

The Draft PEA-E was made available on the LAUSD-OEHS Site Assessment web page for a period of 30 days (July 14 to August 13, 2017). During this period, LAUSD-OEHS accepted written comments to the Draft PEA-E.

### 6.1.2 Public Participation for the Removal Action Workplan Implementation

LAUSD-OEHS invited the public to review the Final Draft RAW during a 30-day public comment period from September 19 to October 17, 2017. A Public Notice announcing the review period was published concurrently with notification for an Environmental Impact Report (EIR) that is being prepared to in accordance with the California Environmental Quality Act (CEQA). The combined CEQA/RAW Public Notice identified the volume of soil, types of contaminants, dates of the public comment period, locations of the public repositories for the RAW, and location and date for a public meeting. The public meeting occurred on Tuesday, October 3, 2017, at 6:00 p.m. in the Auditorium.

During the public comment period, the Final Draft RAW was available for review on the LAUSD Office of Environmental Health and Safety Site Assessment web page located at: http://achieve.lausd.net/oehs, and in the public repositories listed below:

San Pedro High School — Campus Library
1001 W 15th Street
San Pedro, California 90731

San Pedro Regional Branch Library
931 S. Gaffey Street
San Pedro, California 90731

No comments were received regarding the Final Draft RAW, during either the public meeting or the public comment period.

## 6.2 California Environmental Quality Act

California Environmental Quality Act (CEQA) compliance for the RAW will be achieved through the documentation prepared for the overall CMP. LAUSD will prepare an EIR for the CMP that includes the components of this RAW. A mailer was prepared to inform the public about the common CEQA/RAW meeting that was held on October 3, 2017. A copy of this notice is included in Appendix C.

## 6.3 Hazardous Waste Management

Compliance with the DTSC requirements of hazardous waste generation, temporary onsite storage, transportation, and disposal is required. LAUSD has secured a U.S. EPA Identification Number of CAD982022642 for proper management of the hazardous waste. Any container used for onsite storage will be properly labeled with a hazardous waste label and placed at secured locations on the Site, in accordance with applicable regulations. Within 90 days after its generation, the hazardous waste will be transported offsite for disposal. Any shipment of hazardous wastes in California will be transported by a registered hazardous waste hauler under a uniform hazardous waste manifest. Additional discussion of soil handling is described in Section 7.3.

Soil sample results associated with the PEA-E will be not be recent enough to use for waste profiling purposes. Stockpiled soils will be evaluated in accordance with U.S. EPA Publication SW-846. Stockpile samples will be submitted to a state-certified laboratory and analyzed for arsenic in accordance with U.S. EPA Method 6020B, lead in accordance with U.S. EPA Method 6010B, and for chlordane and dieldrin in accordance the U.S. EPA Method 8081A, to characterize these materials in accordance with state and federal regulations. Additional characterization requirements may be applicable to the selected disposal facilities.

## 6.4 South Coast Air Quality Management District

The Site is located in jurisdiction of the South Coast Air Quality Management District (SCAQMD). SCAQMD has three rules, which address excavation (Rules 1150, 1166, and 1466), and one, which addresses fugitive dust (Rule 403). Rule 1150 applies to the excavation of sanitary landfills and does

not apply to this project. Rule 1166 applies to the excavation of soils containing VOCs and does not apply to this RAW, as the chemicals of concern are not volatile. Applicable elements of Rules 403 and 1466 are described below.

The purpose of Rule 1466 is to minimize off-site fugitive dust emissions containing toxic air contaminants generated from earth moving activities. The rule is applicable to projects that disturb greater than 50 $yd^3$ and have been designated as, or been notified by the following: U.S. EPA as a Superfund National Priorities List site, DTSC Brownfield or Cleanup Program site, State Water Resources Control Board or RWQCB Site Cleanup Program site, or the Executive Officer. Although the subject Site has not been designated or notified by these entities, there is the potential for future notification. The toxic air contaminants addressed by the rule include two of the COCs at the Site, arsenic and lead. The RA will comply with SCAQMD Rule 1466 and related requirements for air monitoring, minimization of fugitive dust, signage, work hour limitations, and record keeping. Elements of these requirements have been incorporated into Section 7.3 of this RAW. The notification requirements will not be implemented unless the project becomes subject to the rule.

Several elements of Rule 403, such as protocols for mitigation of potential fugitive dust emissions, have also been incorporated into this RAW. Excavation, loading, and transport of impacted soils shall comply with SCAQMD Rule 403 prevention, reduction, and mitigation measures for fugitive dust emissions. However, notification of SCAQMD is required only for large operations (disturbing more than 100 acres or moving more than 10,000 $yd^3$ per day). Therefore, no notification or filing of a Fugitive Dust Emission Control Plan is required under Rule 403 due to project size.

## 6.5 Health and Safety Plan

A Site-specific HASP was prepared for the RAW activities in accordance with current safety standards as defined by the U.S. EPA, the Occupational Safety and Health Administration (OSHA), and the National Institute of Occupational Safety and Health. In addition, the HASP was prepared in accordance with guidelines set forth in Title 8 of the California Code of Regulations, Section 5192. A copy of the HASP is provided in Appendix D.

## 6.6 Quality Assurance Project Plan

A Quality Assurance Project Plan (QAPP) has been prepared to specifically meet the data quality objectives (DQOs) for this project. The QAPP is provided in Appendix E.

## 6.7 Storm Water Pollution Prevention

The State Water Resources Control Board (SWRCB), as part of the National Pollutant Discharge Elimination System (NPDES), has adopted a statewide NPDES General Permit for Stormwater Discharges Associated with Construction Activity (General Permit) to address discharges of storm water runoff from construction projects that encompass one acre or more in total acreage of soil disturbances. Construction activities subject to the General Permit include demolition, clearing, grading, excavation, soil stockpiling, material storing, onsite staging, offsite staging, and other land disturbance activities. The General Contractor for will prepare a Storm Water Pollution Prevention Plan (SWPPP) for the larger CMP activity and file a Notice of Intent (NOI) and Permit Registration Documents (PRDs) to obtain coverage under the permit. The RA will be subject to the General Permit and specific activities described in the SWPPP.

## 7.0 REMOVAL ACTION IMPLEMENTATION

This section describes the tasks that will be implemented in the field to achieve the RA. The selected RA is Alternative 3 — Excavation and Off-Site Land Disposal. It is expected that LAUSD-OEHS will contract an Environmental Consultant to provide project oversight, air monitoring, health and safety compliance, confirmation sampling, and closure reporting for the RA. The General Contractor, contracted by LAUSD-OEHS for the CMP, will be responsible for providing qualified labor, appropriate equipment, materials, and transportation and disposal services to implement the RA.

### 7.1 Site Preparation and Security Measures

The following sections describe the tasks necessary to prepare the Site for RA activities and provide Site security.

#### 7.1.1 Delineation of Excavation Areas

Prior to excavation activities, the target area will be measured and clearly marked or staked by the General Contractor, in coordination with LAUSD-OEHS and the Environmental Consultant. The areal limits of each excavation area are shown on Figures 3 through 9, with the depths and dimensions described in Table 3. LAUSD-OEHS anticipates that the aboveground portions of the buildings will be removed prior to the RA. Concrete foundations, asphalt or concrete pavement, decorative pavers, curbs, retaining walls, and landscaping may remain in place at the commencement of the RA. LAUSD-OEHS has reported that, during the demolition of buildings and hardscape areas, the General Contractor will be directed to take precautions that prevent contaminated soil from spreading and contaminating non-impacted areas. Suggested precautions would include covering the RA areas with plastic sheeting or plywood. Hazard warning signs for COC contamination, written in English and Spanish, will be posted along the perimeters of the impacted areas.

#### 7.1.2 Utility Clearance

The General Contractor will contact Underground Service Alert (USA) at least 48 hours in advance of excavation activities to identify the location of utilities that enter the property. Proposed excavation areas will be clearly marked with white paint or surveyor's flagging as required by USA. USA will contact utility owners of record near the Site and notify them of our intent to excavate. Utility owners of record will be expected to clearly mark the position of their utilities on the ground surface throughout the designated areas.

In addition, a geophysical survey will be conducted in the excavation area to help identify possible subsurface obstructions. Four potential geophysical methods may be used: magnetics, electromagnetics, ground penetrating radar, and/or electromagnetic line location. Magnetic and

electromagnetic methods are used to identify underground tanks, drums, and conduits, which are detected because of the ferrous and electrically conductive material of their construction. Ground penetrating radar is used as a follow-up technology to characterize identified magnetic or electromagnetic anomalies.

It is unknown which utilities will remain in place or in service at the time of the excavation activities. However, excavations shall have a minimum of one foot of separation from known and active utilities and excavation methods within three feet of active utilities shall be limited to hand tools and shovels. The General Contractor will be responsible for making sure construction workers are safe when working around such lines. Site utilities are shown on the excavation area maps as provided on the LAUSD topographic map dated April 25, 2016.

### 7.1.3 Security Measures

If not already delineated by demolition area fencing, each impacted area will be secured with a chain-link fence with locked gate to limit access. In accordance with SCAQMD Rule 1466, the fencing will be a minimum of 6 feet tall and at least as tall as the height of the tallest soil stockpile, with a windscreen with a porosity of 50 ± 5%. Signage compliant with Proposition 65 and SCAQMD Rule 1466, identifying the contaminants and providing contact information, will be posted on the fence on each side of the Site with a maximum spacing of 1,000 feet.

At the beginning of each working day, the gates will be unlocked and opened to allow excavation equipment and trucks to enter and leave that part of the Site where removal activities are to occur. At the end of each working day, the gates will be closed and locked to secure the Site. Properly trained and equipped hazardous waste workers will conduct fieldwork. In addition, Site visitors and field personnel will be recorded in the field logbook.

### 7.1.4 Contaminant Control

The COCs are not volatile but can adhere to airborne soil particles that will be generated during excavation and loading. Control of fugitive dust by spraying with water will be the primary method of contaminant control at the Site. Dust suppression will be performed by lightly spraying or misting the work areas with water. Further details regarding dust control and air monitoring are provided in Section 7.4.

### 7.1.5 Permits and Plans

Federal, state, or local permits or agency approvals are not expected to be required to implement the RAW.

## 7.2 Field Documentation

Documentation of field and confirmation soil sampling activities will be recorded in field logbooks, chain-of-custody forms, and photographs.

### 7.2.1 Field Logbooks

Field logbooks will be maintained by field personnel to document their observations. Logbook entries will be complete and accurate enough to permit reconstruction of field activities. All entries will be legible and language will be factual, objective, and free of personal opinions or other terminology, which might prove inappropriate. If an error is made, corrections will be made by crossing a line through the error and entering the correct information. Corrections will be dated and initialed. No entries will be obliterated or rendered unreadable.

Entries in the field logbook will include, at a minimum, the following for each sample date:

- Date
- Site name and address
- Recorder's name
- Team members and their responsibilities
- Other personnel at the Site
- A summary of any onsite meetings
- A brief summary of the day's activities and progress
- Estimated volumes of excavated soil for each day in the field
- Levels of safety protection
- Calibration readings for any monitoring equipment used and equipment model and serial number

At a minimum, the following information will be recorded during the collection of each confirmation sample:

- Sample identification number (includes sample location)
- Sampler's name(s)
- Date and time of sample collection
- Analytical method(s)
- Field observations and details important to analysis or integrity of samples (e.g., heavy rains, odors, colors, etc.)
- Instrument reading

### 7.2.2 Chain-of-Custody Records

Chain-of-custody records are used to document sample collection and shipment to the laboratory for analysis. All sample shipments for analyses will be accompanied by a chain-of-custody record. If multiple shipments are sent to a single laboratory on a single day, chain-of-custody form(s) will be completed and sent with each sample shipment. The chain-of-custody record will identify the contents of each shipment and maintain the custodial integrity of the samples. Generally, a sample is considered to be in someone's custody if it is in someone's physical possession, in someone's view, locked up, or kept in a secured area that is restricted to authorize personnel. Until receipt by the laboratory, the custody of the samples will be the responsibility of the sample collector.

### 7.2.3 Photographs

Photographs will be taken at representative locations and at other areas of interest. The photographs will serve to verify information entered in the field logbook.

- Time, date, location, and, if appropriate, weather conditions
- Description of the subject photographed
- Direction the photograph was taken
- Name of person taking the photograph

## 7.3 Excavation

This section describes the procedures for excavation activities, soil stockpiling, soil loading, and decontamination procedures.

### 7.3.1 Shoring

If a trench or excavation is five feet deep or deeper, it must be shored or sloped. If there is a possibility of soil movement, even shallower trenches have to be shored. If workers are required to enter an excavation that is five feet or deeper, a permit from the Division of Occupational Safety and Health, California Department of Industrial Relations must be obtained before excavating.

Due to the shallow planned excavation depths (less than three feet below ground surface) shoring is not expected be required. Whenever compliance is necessary, the site-specific HASP (Appendix D) will be updated.

### 7.3.2 Excavation Plan

Removal action will occur on the campus at the locations where arsenic, lead, and OCPs exceeded the health screening levels. The excavation are named according to the primary soil boring location (e.g. SB1) and are shown on Figures 3 through 9. A summary of the COCs, dimensions, estimated volumes, and limitations for each excavation is provided in Table 3. It should be noted that the distances between sample locations and mapped utilities are approximate. Subsurface anomalies that suggested utility lines not mapped by LAUSD were also found. The locations of utilities should be verified prior to soil disturbance and the excavation limits adjusted accordingly.

In the eight areas where vertical delineation is not available, the initial excavations will be advanced to a depth of 36 inches. This over-excavation is six inches beyond the deepest step-down samples and results in the removal of known contamination. Confirmation samples will be collected from these locations as described in Section 7.5 and compared to the SSCGs. At any confirmation sampling location, where the analytical results indicate the COC soil concentrations is above the SSCG, additional excavation will be performed followed by another round of confirmation sampling in that location to confirm all impacted soil is removed from the RA Area. Sequencing of the removal activities and coordination with potential construction activities will be conducted in consultation with LAUSD-OEHS.

As noted in Section 7.1.2, excavations shall have a minimum of one foot of separation from known utilities and excavation methods within three feet of active utilities shall be limited to hand tools and shovels. Excavation areas that are not constrained by utilities may be excavated with rubber-tire

backhoe or similar equipment. Other equipment that may be used includes a loader for stockpiling and loading, water truck or trailer tank for dust control, dump trucks for moving or transporting waste soil, and support vehicles.

### 7.3.3 Temporary Storage Operations

If the construction sequencing allows, LAUSD-OEHS prefers that excavated soil be loaded directly onto trucks for off-site disposal. Pre-characterization is not discussed further in this RAW. Pre-characterization would require coordination with and pre-approval from LAUSD-OEHS. However, it is likely that some or all of the excavated soils will need to be stored temporarily at the Site.

Excavated soils that are not directly loaded onto trucks will be placed in a temporary stockpile or temporary roll-off bin immediately after being excavated. Temporary stockpiles and/or bins will be located onsite, near the excavated area as designated by LAUSD-OEHS to avoid conflicts with construction. If placed in a stockpile, the impacted soil will be placed on heavy-gauge plastic sheeting, covered with plastic sheeting (three layers of at least 0.04-millimeter thick plastic visqueen), and secured with sandbags. In accordance with SCAQMD Rule 1466, stockpiles shall be less than 400 $yd^3$ and not taller than the perimeter fence. Soil stockpiles with arsenic and lead impacts will be labeled with "SCAQMD Rule 1466 — Control of Particulate Emissions from Soils with Toxic Air Contaminants Applicable Soil."

The stockpiles will also be managed to comply the SWPPP prepared for the CMP. The temporary stockpiles will be designed, constructed, and operated so that the potential for soil to be affected by the action of surface water is limited to the extent practicable.

After excavation activities are complete, soil samples will be collected from the stockpiles in accordance with U.S. EPA Publication SW-846 and landfill acceptance criteria to characterize the soil for disposal. See Section 7.3.3 for additional details on soil segregation and stockpile management.

### 7.3.4 Waste Characterization and Segregation Operations

Waste soil will be segregated and placed in stockpiles in accordance with the classifications provided below. The estimated volume of soil and expected waste classification for each excavation are provided in Table 3. Soil samples to characterize the stockpiles will be collected based on the actual volumes of soil generated, and in accordance with landfill acceptance criteria. Based on the results of PEA-E samples, the soil will be disposed of at the appropriate off-Site facilities. Section 7.7 of this RAW describes the waste classification and resulting transportation and disposal alternatives.

**Non-hazardous arsenic, lead, and organochlorine pesticide impacted soil:** This classification consists of soil that is expected to be classified as non-hazardous based on the results of the PEA-E. An estimated 189 $yd^3$ of soil will be segregated into one or more stockpiles at locations to be determined.

Arsenic concentrations in the samples collected were below the Total Threshold Limit Concentration (TTLC), 10 times the STLC, and 20 times the TCLP. No further testing was required to evaluate whether soil was a California-hazardous or RCRA-hazardous waste with respect to arsenic.

Total lead concentrations for the soil were below the TTLC. This classification also includes soil from excavations where total lead concentrations exceeded 10 times the STLC, or 20 times the TCLP, but soluble lead results were below the corresponding thresholds. Excavations with non-hazardous total and soluble lead concentrations include SB9, SB17, SB25, SB26, SB31, SB36, and SB46.

Total OCP concentrations were below the TTLC and 10 times the STLC. Soil sample SB30-00 exceeded 20 times the TCLP for chlordane, indicating potential classification as a RCRA hazardous waste. However, the TCLP soluble chlordane concentration for SB30-00 was non-detect. Selected soil samples from excavations SB25 (SB25-00 and SB25-5E-00) and SB29 (SB29-00) also contained chlordane at concentrations that exceeded 20 times the TCLP. However, because these total chlordane concentrations were less than the chlordane concentration at SB30-00, soil from SB25 and SB29 is expected to be non-hazardous waste.

**California hazardous (non-RCRA) lead-impacted soil:** This classification comprises soil from excavations SB3, SB7, SB23, and SB34, where soluble lead concentrations from the PEA-E exceeded the STLC. The soluble lead concentrations did not exceed the TCLP. Approximately 37 $yd^3$ will be generated from these excavations and segregated into one or more stockpiles.

### 7.3.5 Decontamination Area

Entry to the impacted areas should be limited to avoid unnecessary exposure and related transfer of contaminants. Equipment or truck(s) will be decontaminated in a designated decontamination set up for each excavation area/exclusion zone during excavation, stockpiling, and soil handling activities as required in the HASP.

Equipment that comes into direct contact with potentially impacted soil or water will be decontaminated to assure the quality of samples collected and/or to avoid cross contamination. Disposable equipment intended for one time use will not be decontaminated, but will be packaged

for appropriate disposal. Decontamination will occur prior to and after each designated use of a piece of equipment, using the following procedures:

- Non-phosphate detergent and tap water wash, using a brush if necessary
- Tap-water rinse
- Initial deionized/distilled water rinse
- Final deionized/distilled water rinse

Trucks that come into direct contact with potentially impacted soil or water will be decontaminated prior to leaving the Site to prevent the offsite tracking of impacted soil. Trucks will be visually inspected before leaving the Site and any dirt adhering to the exterior surfaces will be brushed off and collected on plastic sheeting. The storage bins or beds of the trucks will be inspected to ensure the loads are properly covered and secured. Excavation equipment surfaces will also be brushed off prior to removing it from the exclusion zone.

Equipment will be decontaminated in a pre-designated area on pallets or plastic sheeting. Clean bulky equipment will be stored on plastic sheeting in non-impacted areas. Cleaned small equipment will be stored in plastic bags. Materials, to be stored more than a few hours, will also be covered.

## 7.4 Dust Control Plan

The following sections describe the dust control measures and monitoring procedures. Dust control will follow SCAQMD Rule 403 (Fugitive Dust) including measures that constitute Best Available Control Measures, and Rule 1466 (Control of Particulate Emissions from Soils with Toxic Air Contaminants).

### 7.4.1 Dust Control Measures

The General Contractor will implement appropriate procedures to control the generation of airborne dust by soil remedial activities, such that fugitive dust cannot be visually observed downwind of the excavation or stockpile areas. These measures include the following, at a minimum:

- Lightly spraying or misting the work areas with water. Water mist may also be used on the soil stockpile, in the transport trucks, and on the onsite truck routes. The volume of water added to suppress dust will not exceed the moisture-holding capacity of the soil. If dust is observed, the quantity and/or frequency of misting will be increased until fugitive dust cannot be visually observed downwind of the work area.

- The soil stockpile location will be situated in an area shielded from the prevailing wind, where practical, and covered with plastic. For dust control purposes, efforts will be made to minimize the soil drop height from excavator's bucket onto the soil pile and/or into the transport trucks.

- Stockpiles will be covered and secured at the end of each work day, or sooner if no further soil is being added.

- If adequate room is available, the excavator will be positioned to load or stockpile soil from the upwind side. If sustained wind speeds exceed 15 miles per hour (mph) for a period of 15 minutes, or instantaneous wind speeds exceed 25 mph, excavation activities will cease until the wind speed is below 15 mph.

- After the soil is loaded into the transport trucks, cover the soil with tarps that are adequately secured to ensure that soil cannot spill out of the truck during transport to the disposal facility.

- Truck sides and tires will be swept clear of loose soil before departing the Site. Do not allow track-out to extend beyond 25 feet of the property line.

- Posting of signs in accordance with SCAQMD 1466 at the truck ingress and egress points. The signs will provide LAUSD-OEHS and General Contractor information including phone number for the Site contact or pre-recorded notification center that is accessible 24 hours a day.

### 7.4.2 Dust Monitoring

Dust monitoring will be conducted and total measured dust levels will be compared to site action levels. Site action levels are based on protection of the workers implementing the RA, and on protection of the community surrounding the Site.

#### 7.4.2.1 Dust Action Level and Monitoring for Workers

Action levels for worker protection are based on the California OSHA permissible exposure limit (PEL) for each COC identified in soil at the Project Site (California Code of Regulations Title 8, Section 5155). The PEL for total dust (particulates not otherwise regulated) is 10 milligram per cubic meter ($mg/m^3$). Therefore, assuming that total dust is present at 10 $mg/m^3$ in air and contains the maximum concentration of each COC identified at the Site, then Site worker exposure levels can be calculated as follows:

Exposure Level ($mg/m^3$) = soil concentration (mg/kg) x total dust PEL ($mg/m^3$) / 1,000,000 (mg/kg)
The dust exposure levels for each COC are as follows:

Arsenic: 0.00059 $mg/m^3$ = 59 mg/kg x 10 $mg/m^3$ / 1,000,000 mg/kg

Lead: 0.0025 $mg/m^3$ = 250 mg/kg x 10 $mg/m^3$ / 1,000,000 mg/kg

Chlordane: 0.000017 $mg/m^3$ = 1.7 mg/kg x 10 $mg/m^3$ / 1,000,000 mg/kg

Dieldrin: 0.00000076 $mg/m^3$ = 0.076 mg/kg x 1 $mg/m^3$ / 1,000,000 mg/kg

The following table shows the of calculated maximum dust exposure levels compared with the California OSHA PELs. The dust exposure levels are less than PELs.

**Table 7-1**
**Dust Exposure Level Comparison**

| Chemical of Concern | Calculated Dust Exposure Level[(a)] ($mg/m^3$) | Cal/OSHA PEL ($mg/m^3$) |
|---|---|---|
| Arsenic | 0.00059 | 0.01 |
| Lead | 0.0025 | 0.05 |
| Chlordane | 0.000017 | 0.5 |
| Dieldrin | 0.00000076 | 0.25 |
| Total Dust | — | 10 |

***Notes:***
PEL = permissible exposure limit (eight-hour, time-weighted average)
(a) = Based on 10 $mg/m^3$ total dust
$mg/m^3$ = milligram per cubic meter
Cal/OSHA = California Division of Occupational Safety and Health

The dust action level for workers using equipment in the removal area will be set at 1 $mg/m^3$ steady for five minutes. This concentration is less than the PEL, but is considered protective of workers and will serve to prevent dust levels from exceeding action levels for the fence line monitoring. The Environmental Consultant will stop work if the action level is exceeded until appropriate dust suppression measures are implemented.

Measurement of airborne dust levels at the excavation locations will be conducted by the Environmental Consultant using real-time, data-logging aerosol monitors (i.e., Personal DataRam or PDM-3 Miniram aerosol monitor manufactured by MIE). These instruments will be calibrated daily. Monitoring information will be posted daily and discussed with Site workers. The monitors will be set to log dust levels over five minute periods and will be visually read every 15 minutes.

#### 7.4.2.2 Dust Action Level and Monitoring for Fence Line

The action level for fence line monitoring and protection of the surrounding community are based on SCAQMD Rules 403 and 1466. The Rule 1466 action level for dust, as particulate matter of 10 microns in diameter or smaller ($PM_{10}$), is 25 micrograms per cubic meter air over a two-hour period, and will be used for the RA. The General Contractor shall provide a supervisor that has completed the SCAQMD Fugitive Dust Control Class and has been issued a valid Certificate of Completion for the class.

Continuous direct-reading near real-time ambient monitoring of $PM_{10}$ will be conducted to confirm that concentrations remain below the action level during any earth moving or vehicle movement activities on the Site. The ambient $PM_{10}$ monitoring will be conducted in accordance with the following:

- Use two or more of the following particulate meters: TSI DustTrak II Aerosol Monitor 8530, E-BAM Particulate Monitor, Thermo Scientific Model ADR1500, or other approved instrument.
- Monitor ambient weather conditions including wind speed and direction using handheld meters, an onsite met station, and/or real-time internet weather locations. Record the wind observations and use for the selection of dust monitoring locations.
- Place one upwind monitor where dust concentrations are not influenced with the RA activities.
- Place one downwind monitor in the seasonal prevailing wind direction downwind for the earth moving activities, and as near as possible to the property line.
- Collect near real-time data using data logging features every 10 minutes or less.
- Calculate the $PM_{10}$ concentration averaged over two hours, where the concentration is the absolute difference between upwind and downwind monitors.
- Retain all dust monitoring records at the Site.

If the ambient dust concentration limit is exceeded, the Environmental Consultant will direct the General Contractor to immediately stop all earth-moving activities and apply dust suppressant to all fugitive dust sources or employ necessary dust control measures until the $PM_{10}$ concentration drops below 25 micrograms per cubic meter air, averaged over 30 minutes.

## 7.5 Confirmation Sampling

Confirmation sampling will be conducted after the impacted soil has been removed and in general accordance with the applicable field procedures, quality assurance/quality control protocols, and the QAPP. Confirmation sampling will confirm that remaining soil concentrations are below the SSCGs and that the RAOs have been achieved.

Confirmation soil samples will be collected from the bottom and sidewalls of the excavations. One bottom confirmation soil sample will be collected for approximately every 100 square feet of area excavated. In addition, one confirmation sample will be collected every 20 linear feet of excavation sidewall. The sidewall samples will be collected at the middle depth between the top of bottom of the excavation. At locations that approach utilities, or an upward or downward slope, excavation activities will be discontinued and no sidewall sample will be collected. The numbers, types, and locations of confirmation soil samples are shown on Figures 3 through 9 and detailed in Table 3.

Confirmation samples will be collected using a clean trowel and transferred directly into sampling jars thereby reducing the number of sampling implements, which will reduce the possibility of cross contamination. The final confirmation samples will be covered, labeled, and stored onsite in a cooled chest prior to delivery to a California Environmental Laboratory Accreditation Program-certified laboratory under chain-of-custody procedures. Samples will be delivered to the laboratory on the same day collected, if time permits, and no later than the day following collection. In the event the samples are delivered the day after they are collected, the samples will be secured under proper chain-of-custody documentation at the Environmental Consultant office until delivery.

Depending on the COCs at the excavation, the confirmation soil samples will be analyzed for one or more of the following:

- Arsenic impacts — arsenic by U.S. EPA Method 6020B
- Lead impacts — lead by U.S. EPA Method 6010B
- Chlordane impacts — chlordane by U.S. EPA Method 8081A
- Dieldrin impacts — dieldrin by U.S. EPA Method 8081A

If confirmation samples contain the COC concentrations at or above the RAO, the soil will be further excavated and additional confirmation samples will be collected following consultation with LAUSD-OEHS. Excavation activities will be considered complete when confirmation samples at the extent of excavation contain less than the SSCG for the COC.

The 95% upper confidence limit concentrations of the COCs in the post-remediation data sets (confirmation samples and PEA-E samples that remain in place) will be calculated to evaluate the concentration of these compounds remaining in place at the Site. Because the COCs may not be delineated and will remain in areas where utility or construction conflict are encountered, the 95% upper confidence limits will need to be used a part of the evaluation of potential future exposures.

## 7.7 Transportation Plan for Offsite Disposal

Based on the areal dimensions and estimated depths, the 27 excavation areas represent an approximate in situ volume of 226 $yd^3$ of arsenic, lead, and OCP impacted soil. Due to a loss of compaction after excavation, the in-situ volume may increase and has adjusted by 50 percent to a total stockpile and disposal volume of 339 $yd^3$ (or 509 tons at 1.5 tons per $yd^3$). It is anticipated that approximately 22 transport truckloads will be needed to haul the impacted soil from the RA area for offsite disposal. The estimate is based on hauling 339 $yd^3$ of soil with a weight of 1.5 tons per $yd^3$ and each truckload transporting approximately 15 $yd^3$. If necessary, LAUSD-OEHS will use U.S. EPA identification number 982022642 for the hazardous waste from the Site and its designee will sign all manifests and/or bills of lading. A brief discussion of the Transportation Plan to be implemented during remediation activities is provided below. A Transportation Plan is provided in Appendix F.

### 7.7.1 Soil Loading

Waste soil will be loaded onto transport trailers using a loader or backhoe. During the loading activities, a water mist will be used to suppress dust. A designated, full-time flag person will direct truck traffic during entry and exit at the Site. Entry and exit points will be delineated to warn pedestrians of the truck traffic. A truck log will be maintained and will include the trailer number and company affiliation, the date and time that the truck leaves the Site, the approximate volume of each load, and the hazardous or non-hazardous waste manifest number. In addition, materials will leave the Site with the appropriate paperwork (e.g., Bill of Lading or Uniform Hazardous Waste Manifest). Heavy equipment operation will be restricted to the hours of 7:00 a.m. to 5:00 p.m. on weekdays and 8:00 a.m. to 5:00 p.m. on weekends. To the extent possible, truck traffic will be timed to avoid rush hour, with trucks scheduled to leave the Site between the hours of 8:00 a.m. and 3:00 p.m.

If additional soil needs to be excavated based on confirmation sampling results, the number of truckloads will increase. The excavated soil will be segregated and managed as non-hazardous, non-RCRA hazardous, or RCRA hazardous waste. Waste classifications for the various soil removal areas are summarized in Table 3. Non-hazardous soils will be transported to an approved Class 3 landfill for disposal or use as daily cover. Non-RCRA and RCRA hazardous soils will be transported to a licensed and properly permitted Class 1 disposal facility or an out-of-state facility permitted to

accept hazardous waste. The Class 1 disposal facility that accepts the RCRA hazardous soil may require that the soil be treated prior to disposal pursuant to the land ban restrictions found at Title 40, California Code of Regulations, Part 376. The final determination as to which facilities are used is subject to approval by the LAUSD-OEHS prior to beginning soil removal activities.

Additional information is provided in the Transportation Plan attached as Appendix F.

### 7.7.2 Destination of Soil

The results of characterization of the soil stockpiles will indicate whether the stockpiled soils will be disposed of as non-hazardous, California non-RCRA hazardous, or RCRA hazardous. Samples collected for the PEA-E do have not indicated RCRA hazardous waste concentrations. Based on the characterization results, a soil disposal facility will be selected by the General Contractor and submitted to LAUSD-OEHS for approval.

If the soil is categorized as non-hazardous waste, the following are examples of Class III facilities that may be used:

Chiquita Canyon Landfill
29201 Henry Mayo Drive
Castaic, California 91384
(661) 257-3655

Waste Management — Simi Valley Landfill
2801 N. Madera Road
Simi Valley, California 93065
(805) 579-7267

Soil samples analyses may indicate that the soil is California non-RCRA hazardous. The following are example facilities that may be used:

South Yuma County Landfill
19536 S. Avenue IE
Yuma, Arizona 85366
(928) 341-9300
U.S. EPA Id. No. AZR000506980

Clean Harbors — Buttonwillow
2500 W. Lokern Road
Buttonwillow, California 93206
(661) 762-6200
U.S. EPA Id. No. CAD980675276

### 7.7.3 Soil Transportation Mode

The excavated soil will be transported via roll-off bin hauling trucks, end-dump trucks, or bottom-dump trucks. It is estimated that each truck will have a capacity to haul approximately 18 tons of material. While the soil is being loaded into the trucks, dust suppression will be performed by lightly spraying or misting the work areas with water. Water mist may also be used on soil placed in the transport trucks. After the soil is loaded into the transport trucks, the soil will be covered with a tarp to ensure that no soil spills from the trucks during transport to the disposal facility. If the soil is being transported as non-RCRA or RCRA hazardous waste, the transport company will be required to provide proof of valid certification to transport hazardous soil/materials prior to transporting the soil.

Before leaving the Site, each truck driver will be instructed to notify the Environmental Consultant. Each truck driver will be provided with the cellular phone number for the Environmental Consultant. It will be the responsibility of the Environmental Consultant to notify LAUSD-OEHS of any unforeseen incidents. In addition, there are call boxes located along the freeways that will be traveled to reach the disposal facilities. These call boxes are situated at roadside locations along the truck route to be used to report roadside incidents. Each truck driver will be instructed to report any roadside emergency using the call box system or cellular phone. In the event of an accidental release, the Highway Patrol and local emergency response personnel will be contacted.

Once at the disposal facilities, each truck will be weighed before offloading its payload. Copies of waste manifests will be provided to the RA contractor after all the impacted soil has been shipped from the Site and delivered to the appropriate disposal facility.

## 7.8 Backfill and Site Restoration

Since the excavation made during the RA activities will be three feet deep or less, it is anticipated that regrading or backfilling activities would be conducted during the CMP. To prevent a safety concern, the General Contractor will slope the edges of the excavations following the receipt of acceptable confirmation sample results. In the event that confirmation sampling in the excavation areas requires a greater excavation depth, these areas will be backfilled as needed for safety

purposes. If import soil is needed, the material will be tested and certified in accordance with LAUSD Specification Section 01 4524 Environmental Import/Export Materials Testing (LAUSD, 2011), which includes provisions for LAUSD-OEHS review and approval prior to soil import.

## 8.0 PROJECT SCHEDULE AND REPORT OF COMPLETION

The project schedule is dependent on implementation of the CMP. The anticipated schedule and reporting activities are discussed below.

### 8.1 Project Schedule

Implementation of the RAW will be dependent on the building demolitions and removals, but is required before the modernization grading activities. Remediation activities will be in accordance with the overall construction schedule.

### 8.2 Report of Completion

A draft Removal Action Completion Report (RACR) will be prepared and submitted to the LAUSD-OEHS for review and approval. The RACR will be prepared as expeditiously upon completion of field activities and receipt of final analytical data. The RACR will include the following information at a minimum:

- Site description and background
- Description of soil removal and confirmation sampling activities
- Tabulated analytical results for confirmation soil samples, supported by copies of laboratory reports
- Quality assurance review and a data validation memorandum
- Figures of soil removal excavations showing selected analytical results
- Volumes of soil removed and treatment/disposal methods, including copies of manifests
- Discussion of variances to the RAW, if any
- 95% upper confidence limit calculations for COCs using datasets that include confirmation soil sampling results.
- Findings, conclusions, and recommendations
- Appendices and other supporting documentation.

Once the LAUSD-OEHS approves the RACR, OEHS will certify the completion of environmental investigation and response activities at the Site.

## 9.0 REFERENCES

Agency for Toxic Substances and Disease Registry (ATSDR), 1993, Toxicity Profile for Arsenic, U.S. Department for Health and Human Services, U.S. Public Health Service

California Department of Public Health. California Indoor Radon Test Results. February 2016.

Clark Seif Clark. Phase I Environmental Site Assessment, San Pedro High School, 1001 W. 15th Street, San Pedro, California, 90731. June 7, 2016a.

— PEA Equivalent Work Plan. Soil and Radon Sampling Plan (Task 2), San Pedro High School, 1001 West 15th Street, San Pedro, California, 90731. June 22, 2016b.

California Regional Water Quality Control Board, Los Angeles And Ventura Counties, Region 4, Interim Site Assessment and Cleanup Guidebook. May 1996.

Department of Toxic Substances Control. Office of Human and Ecological Risk. Human Health Risk Assessment Note Number: 3. June 2016.

— Preliminary Endangerment Assessment Guidance Manual, Cal/EPA DTSC. January 1994 (Interim Final — Revised October 2013).

— Interim Guidance Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers, California Department of Toxic Substance Control (Cal-EPA DTSC). June 9, 2006.

— (accessed August 11, 2016). Determination of a Southern California Regional Background Arsenic Concentration in Soil. Retrieved from http://www.dtsc.ca.gov/upload/Background-Arsenic.pdf.

EnSafe, Final Preliminary Environmental Assessment Equivalent, San Pedro High School Comprehensive Modernization Project, 1001 W. 15th Street, Los Angeles, California, 90731. August 30, 2017.

Los Angeles Unified School District. Radon Zones (map). April 26, 2016a.

— Specification Section 01 4524 Environmental Import/Export Material Testing. October 1, 2011.

— Scope of Services, Preliminary Environmental Assessment Equivalent, San Pedro High School Comprehensive Modernization. July 8, 2016b.

Office of Environmental Health Hazard Assessment (OEHHA), California Environmental Protection Agency. Revised California Human Health Screening Levels for Lead. (https://oehha.ca.gov/media/downloads/crnr/leadchhsl091709.pdf). September 2009.

— Development of Health Criteria for School Site Risk Assessment Pursuant to Health and Safety Code Section 901(g) Child-Specific Benchmark Change in Blood Lead Concentration for School Site Risk Assessment. (http://www.dtsc.ca.gov/LawsRegsPolicies/Regs/upload/20-Lead-and-compounds.pdf) April 2007.

Radon Testing Services. Radon Gas Survey — San Pedro High School, 1001 W. 15th Street, San Pedro, California 90731. August 12, 2016.

South Coast Air Quality Management District, Rule 403 – Fugitive Dust. (http://www.aqmd.gov/docs/default-source/rule-book/rule-iv/rule-403.pdf). June 3, 2005.

— Rule 1466 – Control of Particulate Emissions from Soils with Toxic Air Contaminants. (http://www.aqmd.gov/docs/default-source/rule-book/reg-xiv/rule-1466.pdf). July 7, 2017.

United States Environmental Protection Agency. Regions 3, 6, and 9. Regional Screening Levels for Chemical Contaminants at Superfund Sites. Retrieved from https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables-may-2016. May 2016.

United States Geological Survey. 7 1/2-Minute Topographic Map of Torrance Quadrangle, California. 2012.

# FIGURES




FIGURE 1
SITE LOCATION MAP
SAN PEDRO HIGH SCHOOL
1001 15TH STREET
SAN PEDRO, CALIFORNIA 90731

0 1,000 2,000
SCALE IN FEET
COORDINATE SYSTEM: NAD 1983
UTM ZONE 11

| | |
|---|---|
| REQUESTED BY: | TS |
| DRAWN BY: | CC |
| DATE: | 9/12/2017 |
| PROJECT: | 0888821394 |

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DATA SOURCES: U.S. Geological Survey. San Pedro, Torrance Quadrangle, California [Map]. Photorevised 2015. 1:24,000. 7.5 Minute Series.

I:\CAD PROJECTS\21394 LAUSD San Pedro High, LA CA\Plans\21394_C001_EVAC AREAS AND CONFIRMATION SITE LOCATION MAP_FIGURE 1_LAUSD_SAN PEDRO HIGH_CA.dwg 9/7/2017 2:44:38 PM




## LEGEND

APPROXIMATE SUBJECT PROPERTY BOUNDARY

| | | | |
|---|---|---|---|
| 1 | BUILDING AA-244 | 7 | UNNAMED PORTABLE BUILDING |
| 2 | BUILDING AA-347 | 8 | SHOP BUILDING |
| 3 | BUILDING AA-2384 | 9 | BUILDING AA-2082 |
| 4 | BUILDING AA-2383 | 10 | BUILDING BB-182 |
| 5 | LUNCH SHELTER | 11 | UNNAMED CLASSROOM |
| 6 | FLAMMABLE STORAGE | 12 | INDUSTRIAL ARTS BUILDING |

0 100 200

SCALE IN FEET

COORDINATE SYSTEM: NAD 1983
STATE PLANE CALIFORNIA ZONE 5 FEET

FIGURE 2
SITE MAP
SAN PEDRO HIGH SCHOOL
1001 15TH STREET
SAN PEDRO, CALIFORNIA 90731

| | |
|---|---|
| REQUESTED BY: | TS |
| DRAWN BY: | CC |
| DATE: | 9/12/2017 |
| PROJECT: | 0888821394 |

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DATA SOURCES: USGS Image LAR-IAC Earthstar Geographis SIO Bing 2017

I:\CAD PROJECTS\21394 LAUSD San Pedro High, LA CA\Plans\21394_C002_EVAC AREAS AND CONFIRMATION SITE MAP_FIGURE 2_LAUSD_SAN PEDRO HIGH_CA.dwg 9/7/2017 2:46:10 PM

AA-244

AA-347

SB1, 24"

SB1-10N
SB1-5N
SB1-5W
SB1
SB1-5S

SB4, 36"

SB4-5W
SB4
SB4-5E
SB4-10E
SB4-5S

SB3, 12"

SB3
SB3-5S

SB6, 36"

SB6-5N
SB6-5E
SB6-15E
SB6-20E
SB6-5W
SB6
SB6-10E

SB8, 24"

SB8-5N
SB8
SB8-5S
SB8-10S

SB7, 36"

SB7-10W
SB7
SB7-5E
SB7-5W
SB7-5S

(189.50)
(190.50)
(190.00)
(189.00)
(192.00)
(191.00)

DF

I:\CAD PROJECTS\21394 LAUSD San Pedro High, LA CA\Plans\21394_C003_EVAC AREAS AND CONFIRMATION SOIL SAMPLE LOCATIONS FIGURE 3_LAUSD_SAN PEDRO HIGH_CA.dwg 9/12/2017 11:09:56 AM

LEGEND

- WATER LINE
- SEWER LINE
- GAS LINE
- FENCE
- DRAIN LINE
- ELECT. LINE
- TEL./COMM. LINE
- SLOPE DIRECTION - DOWN
- SB1 — SOIL BORING LOCATION
- SB1-5N — SOIL BORING LOCATION WHERE SOIL SAMPLE CONCENTRATION EXCEEDED ONE OR MORE HEALTH SCREENING LEVELS AT ONE OR MORE DEPTHS
- SB1-24" — EXCAVATION NAME AND DEPTH
- UNIDENTIFIED LINE
- UTILITY/SLOPE BOUNDARY
- EXCAVATION LIMITS
- BOTTOM CONFIRMATION SAMPLE LOATION
- SIDEWALL CONFIRMATION SAMPLE LOCATION

0 5 10
SCALE IN FEET
COORDINATE SYSTEM: NAD 1983
STATE PLANE CALIFORNIA ZONE 5 FEET

# FIGURE 3
# EXCAVATION AREAS AND CONFIRMATION SOIL SAMPLE LOCATIONS
# BUILDINGS AA-244 & AA-347
# SAN PEDRO HIGH SCHOOL
# 1001 15TH STREET
# SAN PEDRO, CALIFORNIA 90731

| | |
|---|---|
| REQUESTED BY: | TS |
| DRAWN BY: | CC |
| DATE: | 9/12/2017 |
| PROJECT: | 0888821394 |

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DATA SOURCES: P.A. ARCA ENGINEERING, INC., 500 East Carson Plaza Drive, Suite 201, Carson California 90746

I:\CAD PROJECTS\21394 LAUSD San Pedro High, LA CA\Plans\21394_C004_EVAC AREAS AND CONFIRMATION SOIL SAMPLE LOCATIONS FIGURE 4_LA

AA-2384

AA-2383

LUNCH SHELTER

SB9-5N

SB5, 12"

SB9-5E

SB9-5W

SB9

SB17, 12"

SB17-5N

SB17-5W

SB17

SB17-5E

SB18-5N

SB18

SB18-5E

SB18, 12"

SB18-5S

SB19-10E

SB19-5W

SB19-20E

SB19-5E

SB19-15E

SB19

SB19, 24"

SB19-5S

SB11-5W

SB11-5E

SB11-10E

SB11-10W

SB11

SB11-5S

SB11, 36"

SB11-10S

SB15-5W

SB15

SB15-5E

SB15-10W

SB15-5S

SB15, 24"

(188.00)

(187.50)

(189.00)

(189.50)

(188.50)

(190.00)

DF

N

LEGEND

| | | | |
|---|---|---|---|
| WATER LINE | FENCE | SB9-5N | SOIL BORING LOCATION |
| SEWER LINE | DRAIN LINE | SB9 | SOIL BORING LOCATION WHERE SOIL SAMPLE CONCENTRATION EXCEEDED ONE OR MORE HEALTH SCREENING LEVELS AT ONE OR MORE DEPTHS |
| GAS LINE | ELECT. LINE | SB5-12" | EXCAVATION NAME AND DEPTH |
| | TEL./COMM. LINE | | UNIDENTIFIED LINE |
| | | | UTILITY/SLOPE BOUNDARY |
| | | | EXCAVATION LIMITS |
| | | | BOTTOM CONFIRMATION SAMPLE LOATION |
| | | | SIDEWALL CONFIRMATION SAMPLE LOCATION |

0 6 12

SCALE IN FEET

COORDINATE SYSTEM: NAD 1983
STATE PLANE CALIFORNIA ZONE 5 FEET

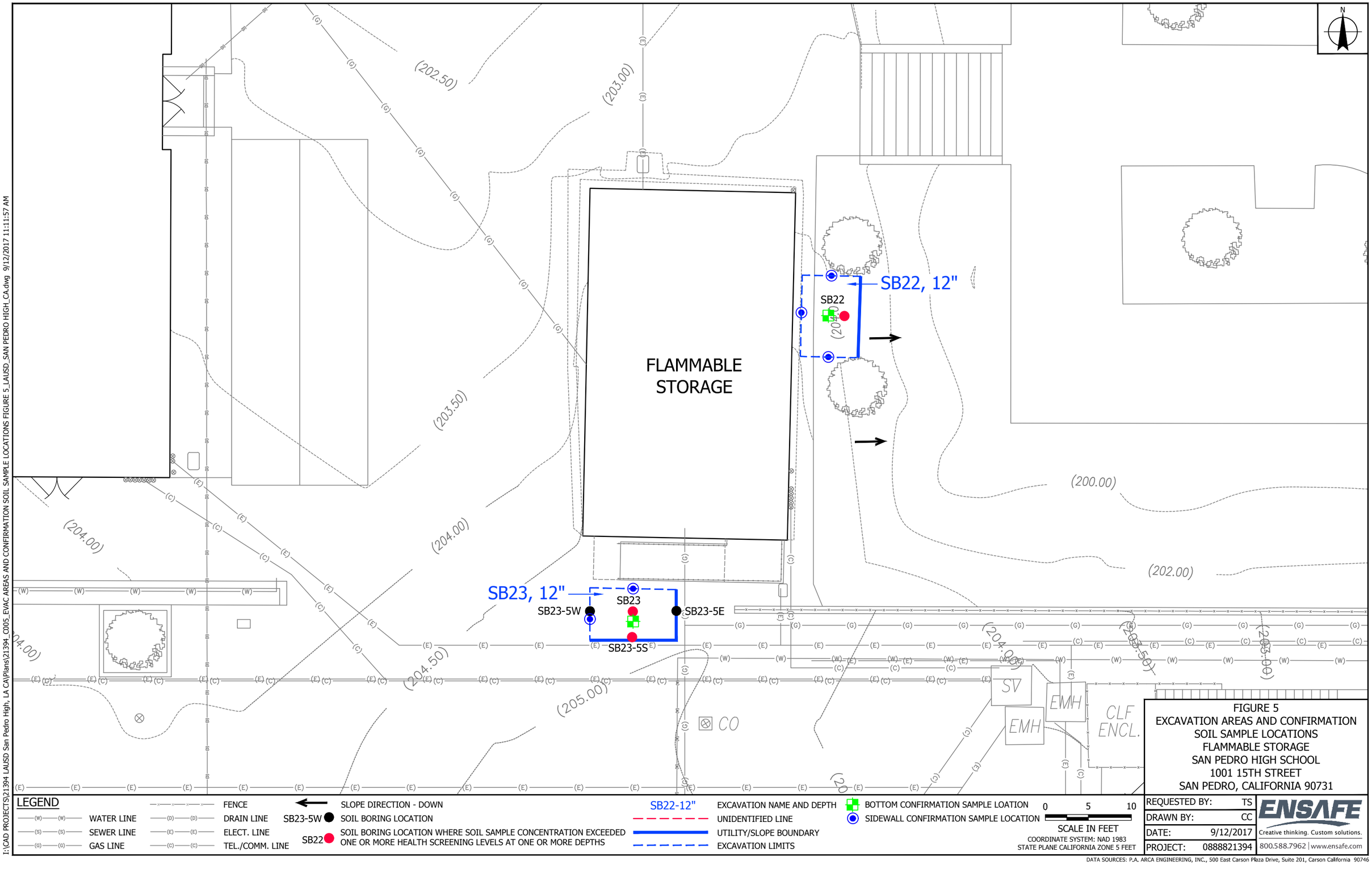
FIGURE 4
EXCAVATION AREAS AND CONFIRMATION SOIL SAMPLE LOCATIONS
BUILDINGS AA-2383, AA-2384 & LUNCH SHELTER
SAN PEDRO HIGH SCHOOL
1001 15TH STREET
SAN PEDRO, CALIFORNIA 90731

| | |
|---|---|
| REQUESTED BY: | TS |
| DRAWN BY: | CC |
| DATE: | 9/12/2017 |
| PROJECT: | 0888821394 |

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I:\CAD PROJECTS\21394 LAUSD San Pedro High, LA CA\Plans\21394_C004_EVAC AREAS AND CONFIRMATION SOIL SAMPLE LOCATIONS FIGURE 4_LAUSD_SAN PEDRO HIGH_CA.dwg 9/12/2017 11:10:32 AM




## LEGEND

- WATER LINE
- SEWER LINE
- GAS LINE
- FENCE
- DRAIN LINE
- ELECT. LINE
- TEL./COMM. LINE
- SLOPE DIRECTION - DOWN
- SB23-5W — SOIL BORING LOCATION
- SB22 — SOIL BORING LOCATION WHERE SOIL SAMPLE CONCENTRATION EXCEEDED ONE OR MORE HEALTH SCREENING LEVELS AT ONE OR MORE DEPTHS
- SB22-12" — EXCAVATION NAME AND DEPTH
- UNIDENTIFIED LINE
- UTILITY/SLOPE BOUNDARY
- EXCAVATION LIMITS
- BOTTOM CONFIRMATION SAMPLE LOATION
- SIDEWALL CONFIRMATION SAMPLE LOCATION

0 5 10
SCALE IN FEET
COORDINATE SYSTEM: NAD 1983
STATE PLANE CALIFORNIA ZONE 5 FEET

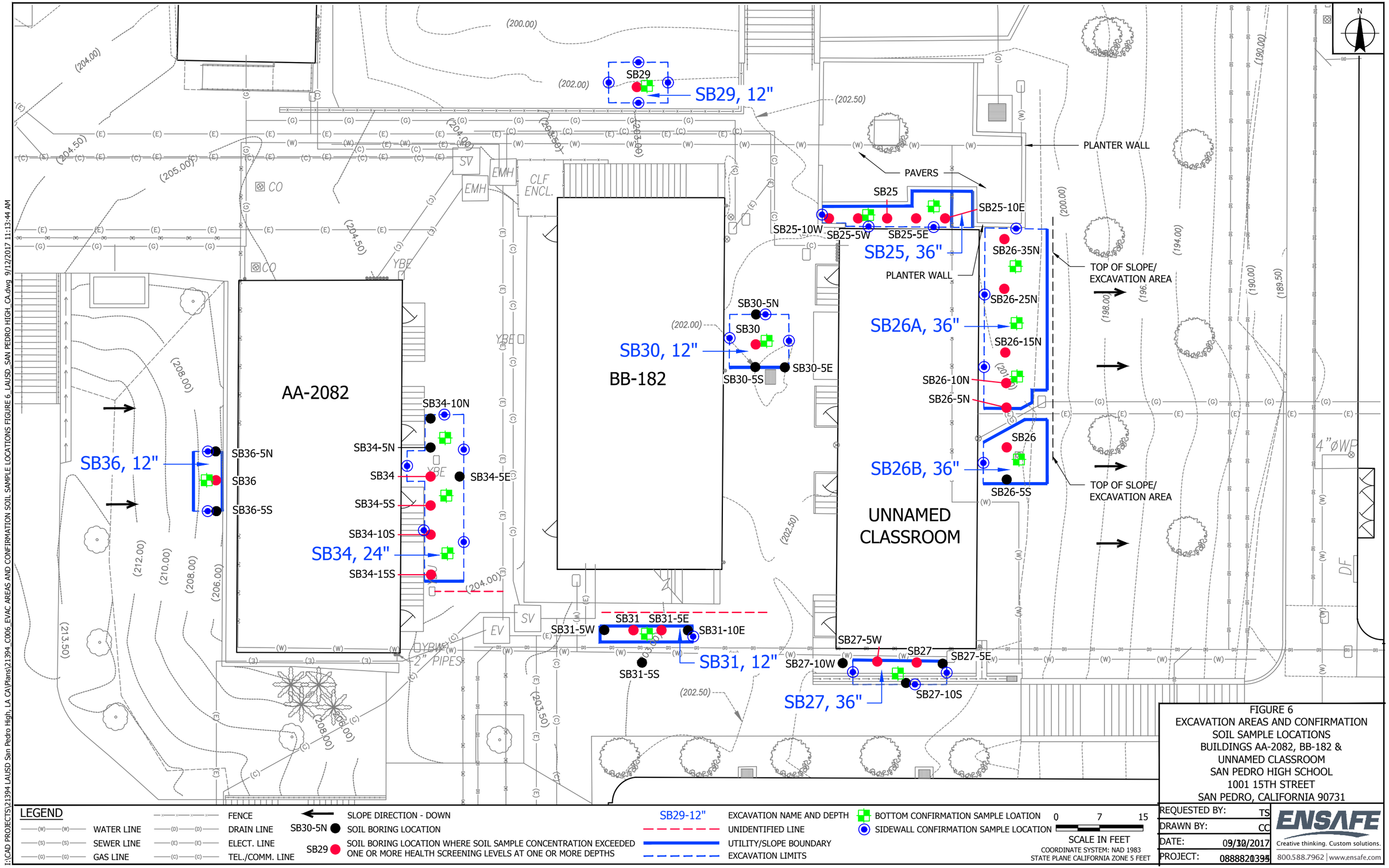
# FIGURE 5
# EXCAVATION AREAS AND CONFIRMATION SOIL SAMPLE LOCATIONS
# FLAMMABLE STORAGE
# SAN PEDRO HIGH SCHOOL
# 1001 15TH STREET
# SAN PEDRO, CALIFORNIA 90731

| | |
|---|---|
| REQUESTED BY: | TS |
| DRAWN BY: | CC |
| DATE: | 9/12/2017 |
| PROJECT: | 0888821394 |

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I:\CAD PROJECTS\21394 LAUSD San Pedro High, LA CA\Plans\21394_C005_EVAC AREAS AND CONFIRMATION SOIL SAMPLE LOCATIONS FIGURE 5_LAUSD_SAN PEDRO HIGH_CA.dwg 9/12/2017 11:11:57 AM




LEGEND

| | | | |
|---|---|---|---|
| WATER LINE | FENCE | SLOPE DIRECTION - DOWN | EXCAVATION NAME AND DEPTH |
| SEWER LINE | DRAIN LINE | SB30-5N SOIL BORING LOCATION | UNIDENTIFIED LINE |
| GAS LINE | ELECT. LINE | SB29 SOIL BORING LOCATION WHERE SOIL SAMPLE CONCENTRATION EXCEEDED ONE OR MORE HEALTH SCREENING LEVELS AT ONE OR MORE DEPTHS | UTILITY/SLOPE BOUNDARY |
| | TEL./COMM. LINE | | EXCAVATION LIMITS |

BOTTOM CONFIRMATION SAMPLE LOATION
SIDEWALL CONFIRMATION SAMPLE LOCATION

0 7 15
SCALE IN FEET
COORDINATE SYSTEM: NAD 1983
STATE PLANE CALIFORNIA ZONE 5 FEET

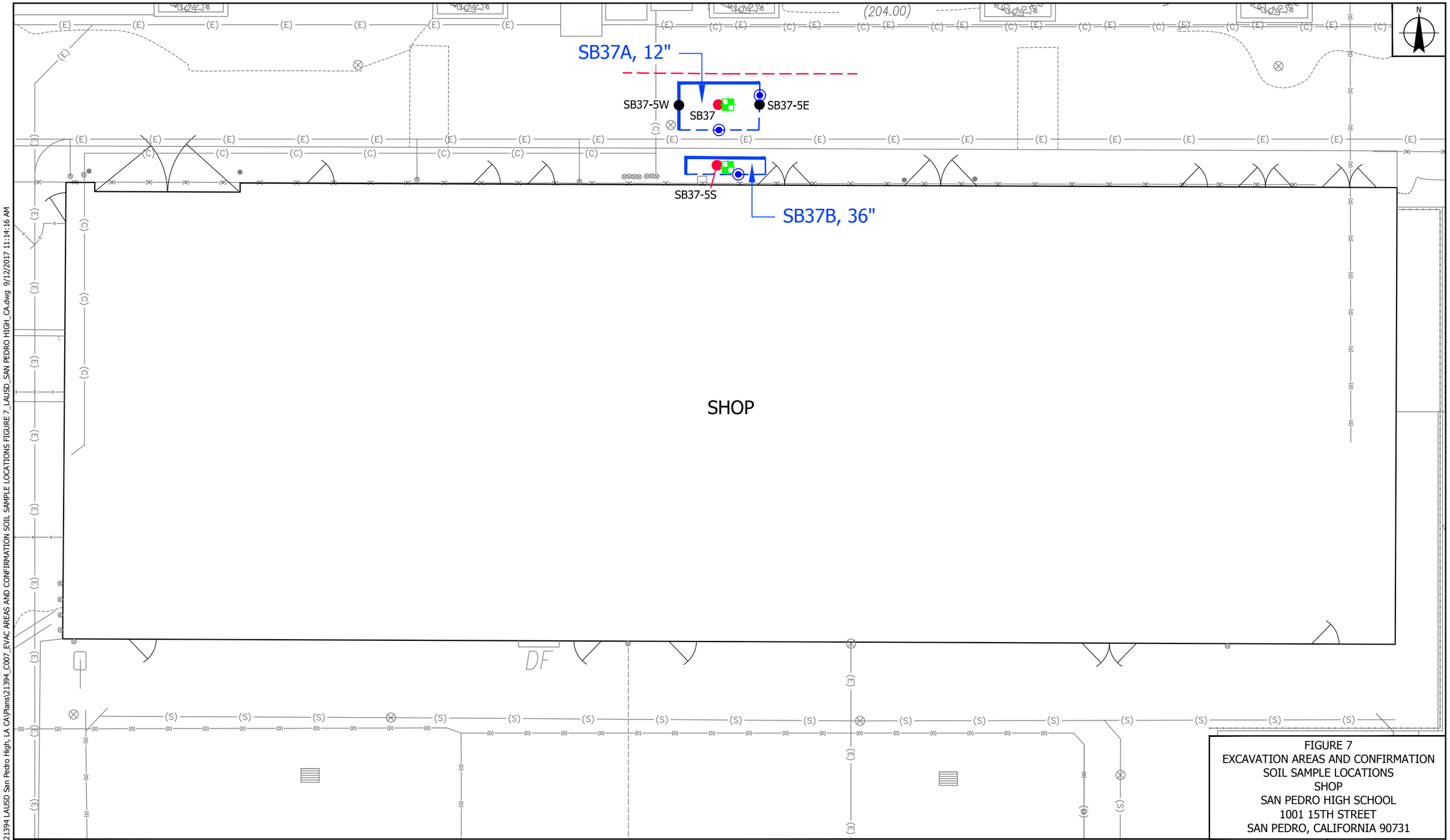
FIGURE 6
EXCAVATION AREAS AND CONFIRMATION
SOIL SAMPLE LOCATIONS
BUILDINGS AA-2082, BB-182 &
UNNAMED CLASSROOM
SAN PEDRO HIGH SCHOOL
1001 15TH STREET
SAN PEDRO, CALIFORNIA 90731

| | |
|---|---|
| REQUESTED BY: | TS |
| DRAWN BY: | CC |
| DATE: | 09/30/2017 |
| PROJECT: | 08888203395 |

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I:\CAD PROJECTS\21394 LAUSD San Pedro High, LA CA\Plans\21394_C006_EVAC AREAS AND CONFIRMATION SOIL SAMPLE LOCATIONS FIGURE 6_LAUSD_SAN PEDRO HIGH_CA.dwg 9/12/2017 11:13:44 AM




LEGEND

| | | | |
|---|---|---|---|
| (W)(W) | WATER LINE | (D)(D) | DRAIN LINE |
| (S)(S) | SEWER LINE | (E)(E) | ELECT. LINE |
| (G)(G) | GAS LINE | (C)(C) | TEL./COMM. LINE |
| x x x | FENCE | | |

SB37-5W ● SOIL BORING LOCATION

SB37 ● SOIL BORING LOCATION WHERE SOIL SAMPLE CONCENTRATION EXCEEDED ONE OR MORE HEALTH SCREENING LEVELS AT ONE OR MORE DEPTHS

SB37A-12" EXCAVATION NAME AND DEPTH

UNIDENTIFIED LINE

UTILITY/SLOPE BOUNDARY

EXCAVATION LIMITS

BOTTOM CONFIRMATION SAMPLE LOATION

SIDEWALL CONFIRMATION SAMPLE LOCATION

0 5 10

SCALE IN FEET

COORDINATE SYSTEM: NAD 1983
STATE PLANE CALIFORNIA ZONE 5 FEET

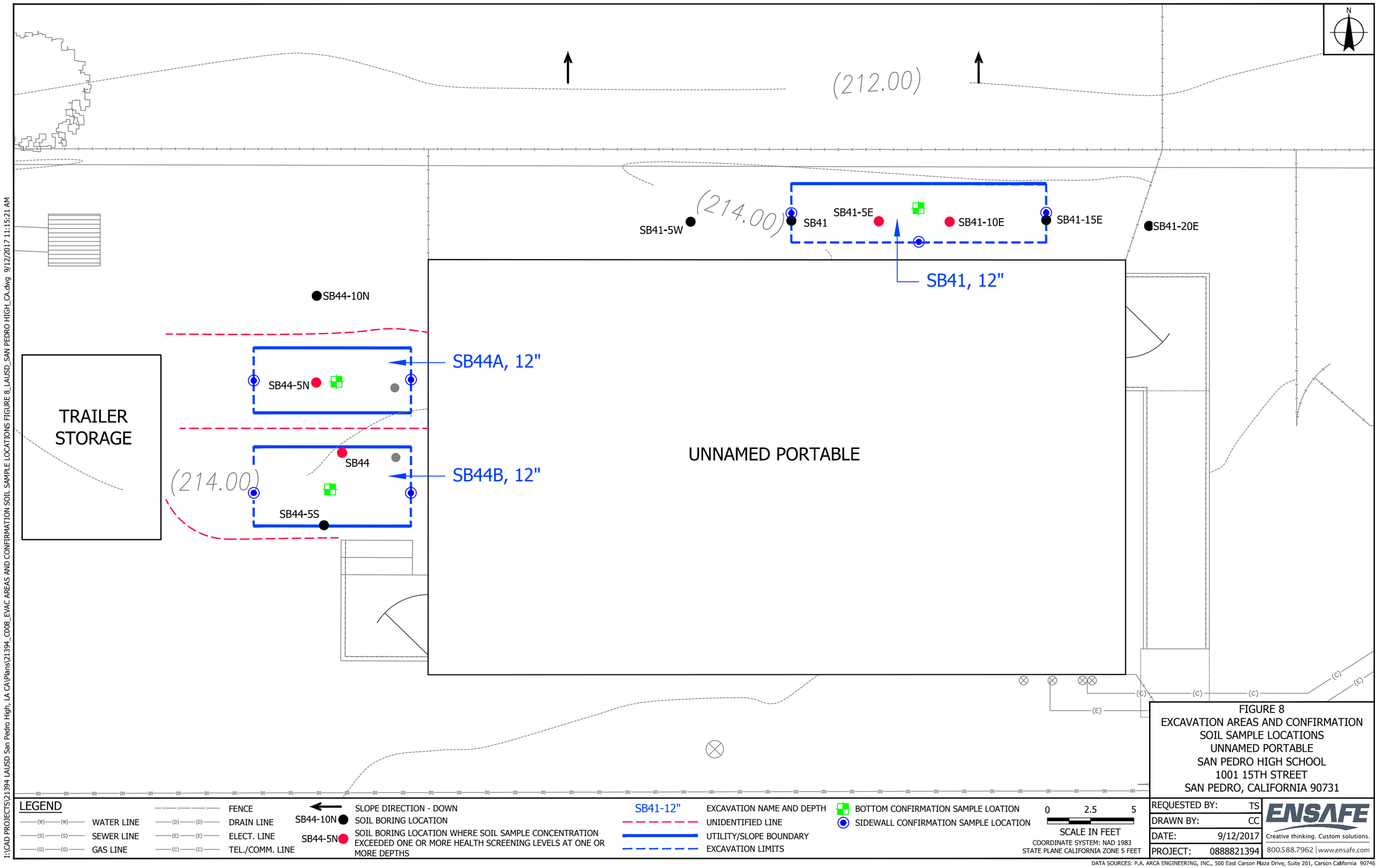
# FIGURE 7
# EXCAVATION AREAS AND CONFIRMATION SOIL SAMPLE LOCATIONS
# SHOP
# SAN PEDRO HIGH SCHOOL
# 1001 15TH STREET
# SAN PEDRO, CALIFORNIA 90731

| | |
|---|---|
| REQUESTED BY: | TS |
| DRAWN BY: | CC |
| DATE: | 9/12/2017 |
| PROJECT: | 0888821394 |

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I:\CAD PROJECTS\21394 LAUSD San Pedro High, LA CA\Plans\21394_C007_EVAC AREAS AND CONFIRMATION SOIL SAMPLE LOCATIONS FIGURE 7_LAUSD_SAN PEDRO HIGH_CA.dwg 9/12/2017 11:14:16 AM




1:\CAD PROJECTS\21394 LAUSD San Pedro High, LA CA\Plans\21394_C008_EVAC AREAS AND CONFIRMATION SOIL SAMPLE LOCATIONS FIGURE 8_LAUSD_SAN PEDRO HIGH_CA.dwg 9/12/2017 11:15:21 AM

LEGEND

- (W)—(W)— WATER LINE
- (S)—(S)— SEWER LINE
- (G)—(G)— GAS LINE
- x—x—x—x— FENCE
- (D)—(D)— DRAIN LINE
- (E)—(E)— ELECT. LINE
- (C)—(C)— TEL./COMM. LINE
- SLOPE DIRECTION - DOWN
- SB44-10N SOIL BORING LOCATION
- SB44-5N SOIL BORING LOCATION WHERE SOIL SAMPLE CONCENTRATION EXCEEDED ONE OR MORE HEALTH SCREENING LEVELS AT ONE OR MORE DEPTHS
- SB41-12" EXCAVATION NAME AND DEPTH
- UNIDENTIFIED LINE
- UTILITY/SLOPE BOUNDARY
- EXCAVATION LIMITS
- BOTTOM CONFIRMATION SAMPLE LOATION
- SIDEWALL CONFIRMATION SAMPLE LOCATION

0 2.5 5
SCALE IN FEET
COORDINATE SYSTEM: NAD 1983
STATE PLANE CALIFORNIA ZONE 5 FEET

DATA SOURCES: P.A. ARCA ENGINEERING, INC., 500 East Carson Plaza Drive, Suite 201, Carson California 90746

FIGURE 8
EXCAVATION AREAS AND CONFIRMATION SOIL SAMPLE LOCATIONS
UNNAMED PORTABLE
SAN PEDRO HIGH SCHOOL
1001 15TH STREET
SAN PEDRO, CALIFORNIA 90731

| | |
|---|---|
| REQUESTED BY: | TS |
| DRAWN BY: | CC |
| DATE: | 9/12/2017 |
| PROJECT: | 0888821394 |

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I:\CAD PROJECTS\21394 LAUSD San Pedro High, LA CA\Plans\21394_C009_EVAC AREAS AND CONFIRMATION SOIL SAMPLE LOCATIONS FIGURE 9_LAUSD_SAN PEDRO HIGH_CA.dwg 9/12/2017 11:16:21 AM

# INDUSTRIAL ARTS

SB46-5N
SB46
SB46-5E
SB46-5S
SB46-10S
SB46, 24"

SB47A, 12"
SB47
SB47-5E
SB47-5W
SB47-10E
SB47B, 24"
SB47-5S

3"SWR ASB
4"S
3"SWR ASB
GAS ASB
DF
DF

## LEGEND

- WATER LINE
- SEWER LINE
- GAS LINE
- FENCE
- DRAIN LINE
- ELECT. LINE
- TEL./COMM. LINE
- SB47-5N — SOIL BORING LOCATION
- SB47 — SOIL BORING LOCATION WHERE SOIL SAMPLE CONCENTRATION EXCEEDED ONE OR MORE HEALTH SCREENING LEVELS AT ONE OR MORE DEPTHS
- SB47A-12" — EXCAVATION NAME AND DEPTH
- UNIDENTIFIED LINE
- UTILITY/SLOPE BOUNDARY
- EXCAVATION LIMITS
- BOTTOM CONFIRMATION SAMPLE LOATION
- SIDEWALL CONFIRMATION SAMPLE LOCATION

0 10 20
SCALE IN FEET
COORDINATE SYSTEM: NAD 1983
STATE PLANE CALIFORNIA ZONE 5 FEET

FIGURE 9
EXCAVATION AREAS AND CONFIRMATION SOIL SAMPLE LOCATIONS
INDUSTRIAL ARTS
SAN PEDRO HIGH SCHOOL
1001 15TH STREET
SAN PEDRO, CALIFORNIA 90731

| | |
|---|---|
| REQUESTED BY: | TS |
| DRAWN BY: | CC |
| DATE: | 9/12/2017 |
| PROJECT: | 0888821394 |

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DATA SOURCES: P.A. ARCA ENGINEERING, INC., 500 East Carson Plaza Drive, Suite 201, Carson California 90746

# Appendix A
# Soluble Lead Laboratory Analytical Results

Date of Report: 08/01/2017

Travis Stravasnik

ENSAFE, Inc
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

| | |
|---|---|
| Client Project: | 0888821231 |
| BCL Project: | LAUSD - San Pedro HS |
| BCL Work Order: | 1720148 |
| Invoice ID: | B274580 |

Enclosed are the results of analyses for samples received by the laboratory on 7/21/2017. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1000631278

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Stuart Buttram
Technical Director



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**1720148-02 - SB7-5S-00A**
WET Test (STLC) ..... 10
TCLP Toxicity ..... 11

**1720148-03 - SB9-00A**
WET Test (STLC) ..... 12
TCLP Toxicity ..... 13

**1720148-04 - SB17-00A**
WET Test (STLC) ..... 14
TCLP Toxicity ..... 15

**1720148-05 - SB23-00A**
WET Test (STLC) ..... 16
TCLP Toxicity ..... 17

**1720148-06 - SB25-00A**
WET Test (STLC) ..... 18
TCLP Toxicity ..... 19

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WET Test (STLC) ..... 20
TCLP Toxicity ..... 21

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WET Test (STLC) ..... 22
TCLP Toxicity ..... 23

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BC LABORATORIES, INC.

# Chain of Custody Form

A-20148 17-2047 rec 22417

Page 1 of 1

| Report To: | |
|---|---|
| Client: ENSAFE | Project #: |
| Attn: Travis Stravasnik | Project Name: San Pedro HS. |
| Street Address: 5001 Airport Plaza Dr. #260 | |
| City, State, Zip: Long Beach CA | Sampler(s): G. Valenzuela |
| Phone: Fax: | |
| Email: tstravasnik@ensafe.com | |
| Work Order #: | |

**Analysis Requested**

Please refer to the back of this page for completion instructions and method legend.

Comments:

| Sample | Description | Date Sampled | Time Sampled | Pb | Pb STLC | Pb TCLP | Sample Matrix: Soil | Sludge | Drinking Water | Ground Waater | Waste Water | Other | Result Request **Surcharge: STD (10 Days) / 5 Day** / 2 Day** / 1 Day** | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -1 | SB3-00A | 7/21/17 | 1228 | X | X | X | X | | | | | | | |
| -2 | SB7-55-00A | | 1219 | | | | | | | | | | | |
| -3 | SB9-00A | | 1240 | | | | | | | | | | | |
| -4 | SB17-00A | | 1255 | | | | | | | | | | | |
| -5 | SB23-00A | | 1045 | | | | | | | | | | | |
| -6 | SB25-00A | | 0940 | | | | | | | | | | | |
| -7 | SB26-00A | | 0913 | | | | | | | | | | | |
| -8 | SB31-5E-00A | | 0924 | | | | | | | | | | | |
| -9 | SB34-5S-00A | | 1000 | | | | | | | | | | | |
| -10 | SB36-00A | | 0955 | | | | | | | | | | | |
| -11 | SB46-00A | | 0950 | | | | | | | | | | | |

CHK BY MAT

DISTRIBUTION

SUB-OUT

| Billing | EDF Required? Geotracker | Global ID (Needed for EDF) | System # (Needed for EDT) |
|---|---|---|---|
| Client: ENSAFE ~~Same as above~~ | ☐ Yes ☐ No | | |
| Address: ON FILE | Send Copy to State of CA? (EDT) | | |
| City: Memphis State TN Zip | ☐ Yes ☐ No | | |
| Attn: | | | |
| P.O. #: | | | |

| | Relinquished By | Date | Time | Received By | Date | Time |
|---|---|---|---|---|---|---|
| 1. | | 7/21/17 | 1500 | | 7/21/17 | 1500 |
| 2. | | 7/21/17 | 1725 | | 7/21/17 | 1730 |
| 3. | | | | | 7/21/17 | 1834 |

BC Laboratories, Inc. – 4100 Atlas Ct. – Bakersfield, CA 93308 – 661.327.4911 – Fax: 661.327.1918 – www.bclabs.com

7217 2045 7.21 2045

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**Chain of Custody and Cooler Receipt Form for 1720148 Page 2 of 3**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 2

Submission #: 17-20148

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.98 Container: Clear glass Thermometer ID: 208 Date/Time 7/21/17 20:43

Temperature: (A) 0.3 °C (C) 0.2 °C Analyst Init RNR

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| (8oz) 16oz / 32oz JAR | A | A | A | A | A | A | A | A | A | A |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: AM Date/Time: 7.24.17 1016 Rev 21 05/23/2016

A = Actual / C = Corrected

[S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMRECrev 20]

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**Chain of Custody and Cooler Receipt Form for 1720148 Page 3 of 3**

BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 2

Submission #: 17-20148

| SHIPPING INFORMATION | SHIPPING CONTAINER | FREE LIQUID |
|---|---|---|
| Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ | Ice Chest ☒ None ☐ Box ☐ | YES ☐ NO ☐ |
| BC Lab Field Service ☒ Other ☐ (Specify)_____ | Other ☐ (Specify)_____ | W / S |

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.98 Container: Clear Jars Thermometer ID: 208 Date/Time 7/21/17 20:43

Temperature: (A) 0.3 °C (C) 0.2 °C Analyst Init RNR

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz $Cr^{+6}$ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PtA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | A | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments:

Sample Numbering Completed By: VDL Date/Time: 7-24-17 1015

A = Actual / C = Corrected

Rev 21 05/23/2016

[S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 20]

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ENSAFE, Inc
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1720148-01** | **COC Number:** | --- | **Receive Date:** | 07/21/2017 20:45 |
| | **Project Number:** | --- | **Sampling Date:** | 07/21/2017 12:28 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB3-00A | **Lab Matrix:** | Solids |
| | **Sampled By:** | Gabriela Valenzuela | **Sample Type:** | Soil |
| **1720148-02** | **COC Number:** | --- | **Receive Date:** | 07/21/2017 20:45 |
| | **Project Number:** | --- | **Sampling Date:** | 07/21/2017 12:19 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB7-5S-00A | **Lab Matrix:** | Solids |
| | **Sampled By:** | Gabriela Valenzuela | **Sample Type:** | Soil |
| **1720148-03** | **COC Number:** | --- | **Receive Date:** | 07/21/2017 20:45 |
| | **Project Number:** | --- | **Sampling Date:** | 07/21/2017 12:40 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB9-00A | **Lab Matrix:** | Solids |
| | **Sampled By:** | Gabriela Valenzuela | **Sample Type:** | Soil |
| **1720148-04** | **COC Number:** | --- | **Receive Date:** | 07/21/2017 20:45 |
| | **Project Number:** | --- | **Sampling Date:** | 07/21/2017 12:55 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB17-00A | **Lab Matrix:** | Solids |
| | **Sampled By:** | Gabriela Valenzuela | **Sample Type:** | Soil |
| **1720148-05** | **COC Number:** | --- | **Receive Date:** | 07/21/2017 20:45 |
| | **Project Number:** | --- | **Sampling Date:** | 07/21/2017 10:45 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB23-00A | **Lab Matrix:** | Solids |
| | **Sampled By:** | Gabriela Valenzuela | **Sample Type:** | Soil |
| **1720148-06** | **COC Number:** | --- | **Receive Date:** | 07/21/2017 20:45 |
| | **Project Number:** | --- | **Sampling Date:** | 07/21/2017 09:40 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB25-00A | **Lab Matrix:** | Solids |
| | **Sampled By:** | Gabriela Valenzuela | **Sample Type:** | Soil |
| **1720148-07** | **COC Number:** | --- | **Receive Date:** | 07/21/2017 20:45 |
| | **Project Number:** | --- | **Sampling Date:** | 07/21/2017 09:13 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB26-00A | **Lab Matrix:** | Solids |
| | **Sampled By:** | Gabriela Valenzuela | **Sample Type:** | Soil |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|---|---|---|---|---|
| **1720148-08** | **COC Number:** | --- | **Receive Date:** | 07/21/2017 20:45 |
| | **Project Number:** | --- | **Sampling Date:** | 07/21/2017 09:24 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB31-5E-00A | **Lab Matrix:** | Solids |
| | **Sampled By:** | Gabriela Valenzuela | **Sample Type:** | Soil |
| **1720148-09** | **COC Number:** | --- | **Receive Date:** | 07/21/2017 20:45 |
| | **Project Number:** | --- | **Sampling Date:** | 07/21/2017 10:00 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB34-5S-00A | **Lab Matrix:** | Solids |
| | **Sampled By:** | Gabriela Valenzuela | **Sample Type:** | Soil |
| **1720148-10** | **COC Number:** | --- | **Receive Date:** | 07/21/2017 20:45 |
| | **Project Number:** | --- | **Sampling Date:** | 07/21/2017 09:55 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB36-00A | **Lab Matrix:** | Solids |
| | **Sampled By:** | Gabriela Valenzuela | **Sample Type:** | Soil |
| **1720148-11** | **COC Number:** | --- | **Receive Date:** | 07/21/2017 20:45 |
| | **Project Number:** | --- | **Sampling Date:** | 07/21/2017 09:50 |
| | **Sampling Location:** | --- | **Sample Depth:** | --- |
| | **Sampling Point:** | SB46-00A | **Lab Matrix:** | Solids |
| | **Sampled By:** | Gabriela Valenzuela | **Sample Type:** | Soil |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# WET Test (STLC)

**BCL Sample ID:** 1720148-01 | **Client Sample Name:** SB3-00A, 7/21/2017 12:28:00PM, Gabriela Valenzuela

| Constituent | Result | Units | PQL | MDL | Method | STLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **8.0** | **mg/L** | **0.50** | **0.16** | **EPA-6010B** | 5.0 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 07/28/17 | 07/28/17 22:15 | JRG | PE-OP2 | 1 | B[G2457 |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# TCLP Toxicity

**BCL Sample ID:** 1720148-01 | **Client Sample Name:** SB3-00A, 7/21/2017 12:28:00PM, Gabriela Valenzuela

| Constituent | Result | Units | PQL | MDL | Method | TCLP Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Lead | ND | mg/L | 0.50 | 0.030 | EPA-6010B | 5.0 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 07/28/17 | 07/28/17 23:21 | JRG | PE-OP2 | 1 | B[G2460 |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# WET Test (STLC)

**BCL Sample ID:** 1720148-02 | **Client Sample Name:** SB7-5S-00A, 7/21/2017 12:19:00PM, Gabriela Valenzuela

| Constituent | Result | Units | PQL | MDL | Method | STLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.7** | **mg/L** | **0.50** | **0.16** | **EPA-6010B** | 5.0 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 07/28/17 | 07/28/17 22:17 | JRG | PE-OP2 | 1 | B[G2457 |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# TCLP Toxicity

**BCL Sample ID:** 1720148-02 | **Client Sample Name:** SB7-5S-00A, 7/21/2017 12:19:00PM, Gabriela Valenzuela

| Constituent | Result | Units | PQL | MDL | Method | TCLP Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Lead | ND | mg/L | 0.50 | 0.030 | EPA-6010B | 5.0 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 07/28/17 | 07/29/17 00:11 | JRG | PE-OP2 | 1 | B[G2468 |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# WET Test (STLC)

**BCL Sample ID:** 1720148-03 | **Client Sample Name:** SB9-00A, 7/21/2017 12:40:00PM, Gabriela Valenzuela

| Constituent | Result | Units | PQL | MDL | Method | STLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **0.98** | **mg/L** | **0.50** | **0.16** | **EPA-6010B** | 5.0 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 07/28/17 | 07/28/17 22:19 | JRG | PE-OP2 | 1 | B[G2457 |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# TCLP Toxicity

**BCL Sample ID:** 1720148-03 | **Client Sample Name:** SB9-00A, 7/21/2017 12:40:00PM, Gabriela Valenzuela

| Constituent | Result | Units | PQL | MDL | Method | TCLP Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Lead | ND | mg/L | 0.50 | 0.030 | EPA-6010B | 5.0 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 07/28/17 | 07/28/17 23:59 | JRG | PE-OP2 | 1 | B[G2468 |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# WET Test (STLC)

**BCL Sample ID:** 1720148-04 | **Client Sample Name:** SB17-00A, 7/21/2017 12:55:00PM, Gabriela Valenzuela

| Constituent | Result | Units | PQL | MDL | Method | STLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **0.20** | **mg/L** | **0.50** | **0.16** | **EPA-6010B** | 5.0 | **J** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 07/28/17 | 07/28/17 22:21 | JRG | PE-OP2 | 1 | B[G2457 |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# TCLP Toxicity

**BCL Sample ID:** 1720148-04 | **Client Sample Name:** SB17-00A, 7/21/2017 12:55:00PM, Gabriela Valenzuela

| Constituent | Result | Units | PQL | MDL | Method | TCLP Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **0.19** | **mg/L** | **0.50** | **0.030** | **EPA-6010B** | 5.0 | **J** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 07/28/17 | 07/29/17 00:19 | JRG | PE-OP2 | 1 | B[G2468 |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# WET Test (STLC)

**BCL Sample ID:** 1720148-05 | **Client Sample Name:** SB23-00A, 7/21/2017 10:45:00AM, Gabriela Valenzuela

| Constituent | Result | Units | PQL | MDL | Method | STLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **2.0** | **mg/L** | **0.50** | **0.16** | **EPA-6010B** | 5.0 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 07/28/17 | 07/28/17 22:23 | JRG | PE-OP2 | 1 | B[G2457 |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# TCLP Toxicity

**BCL Sample ID:** 1720148-05 | **Client Sample Name:** SB23-00A, 7/21/2017 10:45:00AM, Gabriela Valenzuela

| Constituent | Result | Units | PQL | MDL | Method | TCLP Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Lead | ND | mg/L | 0.50 | 0.030 | EPA-6010B | 5.0 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 07/28/17 | 07/28/17 23:23 | JRG | PE-OP2 | 1 | B[G2460 |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# WET Test (STLC)

**BCL Sample ID:** 1720148-06 | **Client Sample Name:** SB25-00A, 7/21/2017 9:40:00AM, Gabriela Valenzuela

| Constituent | Result | Units | PQL | MDL | Method | STLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **2.5** | **mg/L** | **0.50** | **0.16** | **EPA-6010B** | 5.0 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 07/28/17 | 07/28/17 22:25 | JRG | PE-OP2 | 1 | B[G2457 |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# TCLP Toxicity

**BCL Sample ID:** 1720148-06 | **Client Sample Name:** SB25-00A, 7/21/2017 9:40:00AM, Gabriela Valenzuela

| Constituent | Result | Units | PQL | MDL | Method | TCLP Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **0.37** | **mg/L** | **0.50** | **0.030** | **EPA-6010B** | 5.0 | **J** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 07/28/17 | 07/29/17 00:21 | JRG | PE-OP2 | 1 | B[G2468 |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# WET Test (STLC)

**BCL Sample ID:** 1720148-07 | **Client Sample Name:** SB26-00A, 7/21/2017 9:13:00AM, Gabriela Valenzuela

| Constituent | Result | Units | PQL | MDL | Method | STLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **2.4** | **mg/L** | **0.50** | **0.16** | **EPA-6010B** | 5.0 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 07/28/17 | 07/28/17 21:45 | JRG | PE-OP2 | 1 | B[G2457 |

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**Reported:** 08/01/2017 11:55
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Project Number: 0888821231
Project Manager: Travis Stravasnik

# TCLP Toxicity

**BCL Sample ID:** 1720148-07 | **Client Sample Name:** SB26-00A, 7/21/2017 9:13:00AM, Gabriela Valenzuela

| Constituent | Result | Units | PQL | MDL | Method | TCLP Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Lead | ND | mg/L | 0.50 | 0.030 | EPA-6010B | 5.0 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 07/28/17 | 07/28/17 23:03 | JRG | PE-OP2 | 1 | B[G2460 |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# WET Test (STLC)

**BCL Sample ID:** 1720148-08 | **Client Sample Name:** SB31-5E-00A, 7/21/2017 9:24:00AM, Gabriela Valenzuela

| Constituent | Result | Units | PQL | MDL | Method | STLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Lead | ND | mg/L | 0.50 | 0.16 | EPA-6010B | 5.0 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 07/28/17 | 07/28/17 22:33 | JRG | PE-OP2 | 1 | B[G2457 |

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Long Beach, CA 90815

**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# TCLP Toxicity

**BCL Sample ID:** 1720148-08 | **Client Sample Name:** SB31-5E-00A, 7/21/2017 9:24:00AM, Gabriela Valenzuela

| Constituent | Result | Units | PQL | MDL | Method | TCLP Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Lead | ND | mg/L | 0.50 | 0.030 | EPA-6010B | 5.0 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 07/28/17 | 07/28/17 23:25 | JRG | PE-OP2 | 1 | B[G2460 |

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5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# WET Test (STLC)

**BCL Sample ID:** 1720148-09 | **Client Sample Name:** SB34-5S-00A, 7/21/2017 10:00:00AM, Gabriela Valenzuela

| Constituent | Result | Units | PQL | MDL | Method | STLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **9.2** | **mg/L** | **0.50** | **0.16** | **EPA-6010B** | 5.0 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 07/28/17 | 07/28/17 22:35 | JRG | PE-OP2 | 1 | B[G2457 |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# TCLP Toxicity

**BCL Sample ID:** 1720148-09 | **Client Sample Name:** SB34-5S-00A, 7/21/2017 10:00:00AM, Gabriela Valenzuela

| Constituent | Result | Units | PQL | MDL | Method | TCLP Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Lead | ND | mg/L | 0.50 | 0.030 | EPA-6010B | 5.0 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 07/28/17 | 07/28/17 23:27 | JRG | PE-OP2 | 1 | B[G2460 |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# WET Test (STLC)

**BCL Sample ID:** 1720148-10 | **Client Sample Name:** SB36-00A, 7/21/2017 9:55:00AM, Gabriela Valenzuela

| Constituent | Result | Units | PQL | MDL | Method | STLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **2.5** | **mg/L** | **0.50** | **0.16** | **EPA-6010B** | 5.0 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 07/28/17 | 07/28/17 22:37 | JRG | PE-OP2 | 1 | B[G2457 |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# TCLP Toxicity

**BCL Sample ID:** 1720148-10 | **Client Sample Name:** SB36-00A, 7/21/2017 9:55:00AM, Gabriela Valenzuela

| Constituent | Result | Units | PQL | MDL | Method | TCLP Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| **Lead** | **0.071** | **mg/L** | **0.50** | **0.030** | **EPA-6010B** | 5.0 | **J** | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 07/28/17 | 07/28/17 23:29 | JRG | PE-OP2 | 1 | B[G2460 |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# WET Test (STLC)

**BCL Sample ID:** 1720148-11 | **Client Sample Name:** SB46-00A, 7/21/2017 9:50:00AM, Gabriela Valenzuela

| Constituent | Result | Units | PQL | MDL | Method | STLC Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Lead | ND | mg/L | 0.50 | 0.16 | EPA-6010B | 5.0 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 07/28/17 | 07/28/17 22:39 | JRG | PE-OP2 | 1 | B[G2457 |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# TCLP Toxicity

**BCL Sample ID:** 1720148-11 | **Client Sample Name:** SB46-00A, 7/21/2017 9:50:00AM, Gabriela Valenzuela

| Constituent | Result | Units | PQL | MDL | Method | TCLP Limits | Lab Quals | Run # |
|---|---|---|---|---|---|---|---|---|
| Lead | ND | mg/L | 0.50 | 0.030 | EPA-6010B | 5.0 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|---|---|---|---|---|---|---|---|
| 1 | EPA-6010B | 07/28/17 | 07/29/17 00:23 | JRG | PE-OP2 | 1 | B[G2468 |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# WET Test (STLC)

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: B[G2457** | | | | | | |
| Lead | B[G2457-BLK1 | ND | mg/L | 0.50 | 0.16 | |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# WET Test (STLC)

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: B[G2457** | | | | | | | | | | |
| Lead | B[G2457-BS1 | LCS | 21.519 | 20.000 | mg/L | 108 | | 85 - 115 | | |

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Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# WET Test (STLC)

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: B[G2457** | Used client sample: Y - Description: SB26-00A, 07/21/2017 09:13 | | | | | | | | | | |
| Lead | DUP | 1720148-07 | 2.4320 | 2.2529 | | mg/L | 7.6 | | 20 | | |
| | MS | 1720148-07 | 2.4320 | 23.947 | 20.408 | mg/L | | 105 | | 75 - 125 | |
| | MSD | 1720148-07 | 2.4320 | 23.433 | 20.408 | mg/L | 2.2 | 103 | 20 | 75 - 125 | |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# TCLP Toxicity

## Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---|---|---|---|---|---|
| **QC Batch ID: B[G2460** | | | | | | |
| Lead | B[G2460-BLK1 | ND | mg/L | 0.50 | 0.030 | |
| **QC Batch ID: B[G2468** | | | | | | |
| Lead | B[G2468-BLK1 | ND | mg/L | 0.50 | 0.030 | |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# TCLP Toxicity

## Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: B[G2460** | | | | | | | | | | |
| Lead | B[G2460-BS1 | LCS | 20.652 | 20.000 | mg/L | 103 | | 85 - 115 | | |
| **QC Batch ID: B[G2468** | | | | | | | | | | |
| Lead | B[G2468-BS1 | LCS | 20.505 | 20.000 | mg/L | 103 | | 85 - 115 | | |

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**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

# TCLP Toxicity

## Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **QC Batch ID: B[G2460** | Used client sample: Y - Description: SB26-00A, 07/21/2017 09:13 | | | | | | | | | | |
| Lead | DUP | 1720148-07 | ND | 0.042736 | | mg/L | | | 20 | | J |
| | MS | 1720148-07 | ND | 20.031 | 20.000 | mg/L | | 100 | | 75 - 125 | |
| | MSD | 1720148-07 | ND | 18.907 | 20.000 | mg/L | 5.8 | 94.5 | 20 | 75 - 125 | |
| **QC Batch ID: B[G2468** | Used client sample: Y - Description: SB9-00A, 07/21/2017 12:40 | | | | | | | | | | |
| Lead | DUP | 1720148-03 | ND | ND | | mg/L | | | 20 | | |
| | MS | 1720148-03 | ND | 20.324 | 20.000 | mg/L | | 102 | | 75 - 125 | |
| | MSD | 1720148-03 | ND | 19.347 | 20.000 | mg/L | 4.9 | 96.7 | 20 | 75 - 125 | |

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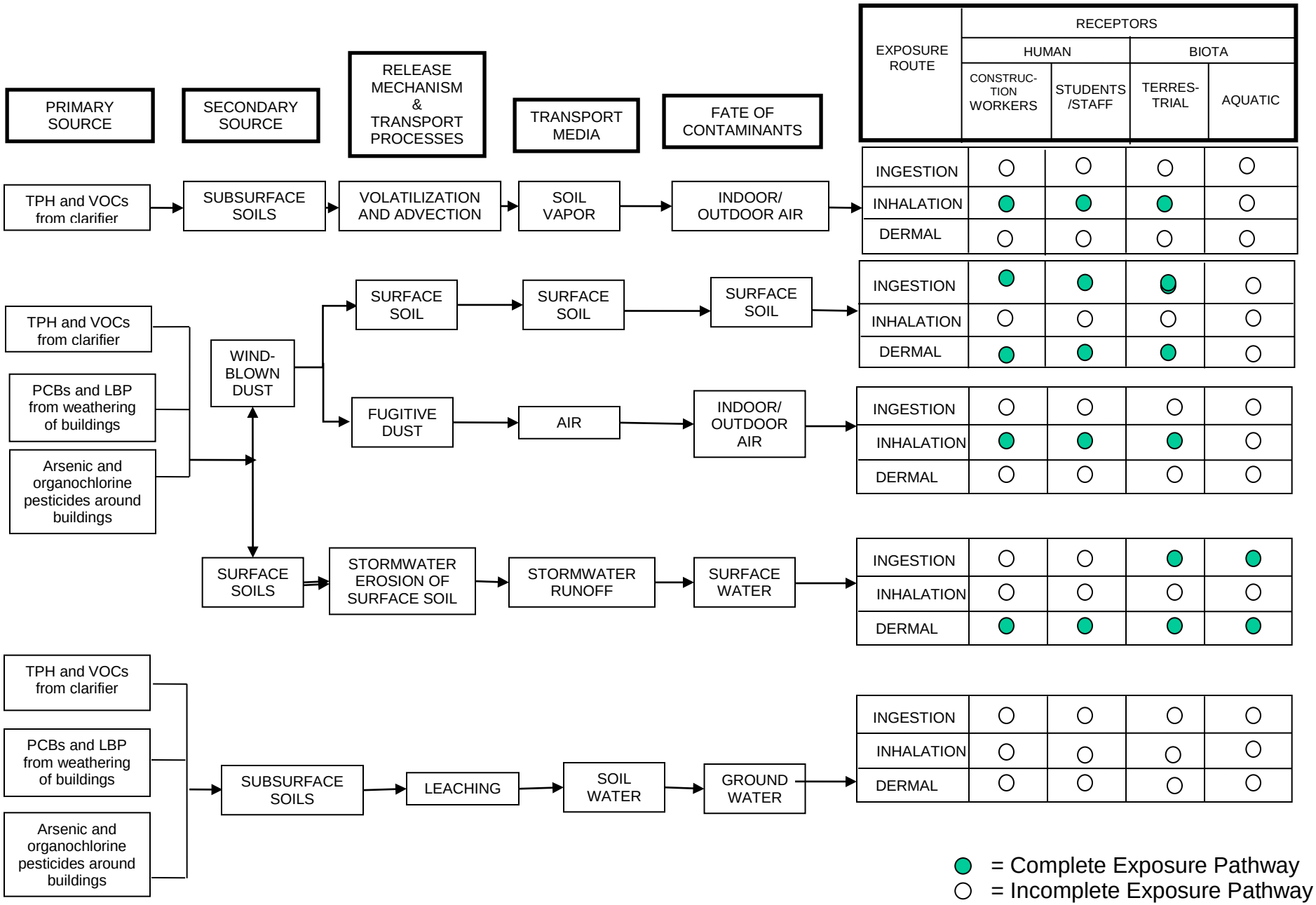
**Reported:** 08/01/2017 11:55
Project: LAUSD - San Pedro HS
Project Number: 0888821231
Project Manager: Travis Stravasnik

## Notes And Definitions

| | |
|---|---|
| J | Estimated Value (CLP Flag) |
| MDL | Method Detection Limit |
| ND | Analyte Not Detected |
| PQL | Practical Quantitation Limit |

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# Appendix B
# Conceptual Site Model




ENSAFE

CHECKED BY: TLS

Appendix B

PROJECT NO. 0888821394

DATE: September 2017

**CONCEPTUAL SITE MODEL**

**FIGURE**

**B-1**

# Appendix C
# Public Notices

# NOTICE OF PREPARATION OF ENVIRONMENTAL IMPACT REPORT AND NOTICE OF PUBLIC COMMENT PERIOD FOR REMEDIAL ACTION WORKPLAN

**TO:** Agencies, Organizations and Interested Parties

**PROJECT TITLE:** San Pedro High School Comprehensive Modernization Project

**SUBJECT:** Notice of Preparation of a Draft Environmental Impact Report in Compliance with Title 14, Section 15082(a), 15103, and 15375 of the California Code of Regulations and Notice of Public Comment Period for Removal Action Workplan

**Notice is hereby given** that the Los Angeles Unified School District (LAUSD) is the Lead Agency under the California Environmental Quality Act (CEQA) in the preparation of the Environmental Impact Report (EIR) for the San Pedro High School Comprehensive Modernization Project. The Lead Agency has prepared this Notice of Preparation (NOP) for the EIR in order to provide the widest exposure and opportunity for input from public agencies, stakeholders, organizations, and individuals on the scope of the environmental analysis addressing the potential effects of the proposed project. Notice is further given that a Removal Action Workplan (RAW) has been prepared and is available for review for the Project.

**PROJECT LOCATION:** The 22.9-acre San Pedro HS campus is located at 1001 West 15th Street, San Pedro, Los Angeles County, California.

**PROJECT DESCRIPTION:** The proposed Project would include renovations, modernizations, and new construction at San Pedro HS; including demolition of the Industrial Arts Building, Metal Shop Building, and Lunch Shelter/Food Service Building, and approximately 17 classrooms located in nine portable (relocatable) buildings. The Project would include the construction of a Band and Shop Building, Lunch Shelters, and a new Administration, Food Services, and Classroom Building. The new buildings would house approximately 14 new general and specialty classrooms, and support spaces. The Project includes modifications and/or upgrades to the existing Administration Building, the Physical Education Building (Old Gym), the Home Economics Building, and Classroom Building 1. Upon Project completion, San Pedro HS would have 74 classrooms including 25 existing classrooms, 35 remodeled classrooms, and 14 new classrooms.

In addition, the District proposes the removal and off-site disposal of approximately 226 cubic yards of soil with elevated concentrations of arsenic, lead, and/or organochlorine pesticides and replacement with clean fill.

**POTENTIAL ENVIRONMENTAL EFFECTS:** LAUSD has prepared an Initial Study that describes the potential environmental effects of the proposed project. Based on the conclusions of the Initial Study, it has been determined that an EIR is the appropriate level of environmental documentation. Environmental factors that will be analyzed in the EIR are: Air Quality, Cultural Resources, Greenhouse Gases, Noise, Pedestrian Safety, and Transportation/Traffic.

The RAW presents the findings of the site assessment investigations performed for this Project and outlines the proposed process for the removal and off-site disposal of the impacted soil.

**PUBLIC REVIEW PERIOD:** LAUSD will make this NOP and the Initial Study (pursuant to California Code of Regulations, Title 14, Section 15082(b)) available for public review and comment from September 29, 2017 to October 28, 2017. The RAW will be available for public review and comment from September 19, 2017 to October 18, 2017.

**RESPONSES AND COMMENTS:** Please indicate a contact person for your agency or organization and send your comments to:

**CEQA Questions and Comments**
Los Angeles Unified School District
Office of Environmental Health and Safety
Attention: Will Meade, Environmental Planning Specialist
333 South Beaudry Avenue, 21st Floor
Los Angeles, CA 90017
Email: CEQA-comments@lausd.net
*Please include "SPHS Comp Mod" in the subject line*

**RAW Questions and Comments**
Los Angeles Unified School District
Office of Environmental Health and Safety
Attention: Dane Robinson, Site Assessment Project Manager
333 South Beaudry Avenue, 21st Floor
Los Angeles, CA 90017
Email: dane.robinson@lausd.net
Phone: (213) 241-4122

**SCOPING MEETING:** LAUSD will hold a public meeting on **October 3, 2017** at **6:00 PM** at the San Pedro High School Auditorium located at 1001 W. 15th St. San Pedro, California. You are encouraged to attend and present environmental information that you believe should be addressed in the EIR.

**DOCUMENT AVAILABILITY:** The Initial Study and RAW are available for public review during regular business hours at the locations listed below.

- LAUSD, Office of Environmental Health and Safety, 333 South Beaudry Avenue, 21st Floor, Los Angeles, CA 90017 (by appointment, call 213.241.3199)
- San Pedro High School Library: 1001 West 15th Street, San Pedro, CA
- San Pedro Regional Branch Library: 931 S. Gaffey Street, San Pedro, CA 90731
- LAUSD Local District South Office, 1208 Magnolia Avenue, Gardena, CA 90247
- LAUSD Office of Environmental Health and Safety Website:
    - CEQA Initial Study (http://achieve.lausd.net/ceqa)
    - RAW (http://achieve.lausd.net/siteassessment)

# AVISO DE PREPARACIÓN
# DE INFORME DE IMPACTO AMBIENTAL
# AVISO DE PERIODO DE COMENTARIOS PÚBLICOS PARA
# EL PLAN DE TRABAJO DE ACCION CORRECTIVA

**PARA:** Agencias, Organizaciones y Partes Interesadas

**TITULO DEL PROYECTO:** Proyecto de Modernización Extensa de la Escuela Preparatoria San Pedro

**TEMA:** Aviso de Preparación de un Borrador de Informe de Impacto Ambiental en cumplimiento con las Secciones 15082(a), 15103, y 15375 del Título 14 del Código de Regulaciones de California y aviso de período de comentarios públicos para el plan de trabajo de acción correctiva.

**Por el presente se da aviso** que el Distrito Escolar Unificado de Los Ángeles, (LAUSD, por sus siglas en inglés) es la agencia líder bajo la ley de la Calidad Ambiental de California (CEQA, por sus siglas en inglés) en la preparación del Borrador del Informe de Impacto Ambiental (EIR, por sus siglas en inglés), para el Proyecto de Modernización Extensa de la Escuela Preparatoria San Pedro. La Agencia Líder ha preparado este Aviso de Preparación (NOP, por sus siglas en inglés) para el EIR, con el fin de proporcionar la más amplia atención y oportunidad posible de aportaciones de agencias públicas, partes interesadas, organizaciones e individuos sobre el alcance del análisis ambiental que trata los efectos potenciales del proyecto propuesto. Además se da aviso que un Plan de Trabajo de Acción de Remoción (RAW, por sus siglas en ingles) se ha preparado y esta disponible para repaso para el Proyecto.

**UBICACIÓN DEL PROYECTO:** El campus de 22.9 acres de la Escuela Preparatoria San Pedro está ubicado en 1001 West Street, San Pedro, Condado de Los Ángeles, California.

**DESCRIPCIÓN DEL PROYECTO:** El Proyecto Propuesto incluiría renovaciones, modernizaciones, y nuevas construcciones en la Escuela Preparatoria San Pedro; incluyendo la demolición del edificio de Artes Industriales, el Edificio del Taller de Metales, y el edificio de Refugio de Almuerzo/Edificio de Servicio de Alimentos, y aproximadamente 17 aulas ubicadas en nueve edificios portátiles (reubicables). El Proyecto incluiría la construcción de un edificio de Banda y Taller, Refugios para Comer, y un nuevo edificio de Administración, Servicio de Alimentos, y de Aulas. Los nuevos edificios tendrían aproximadamente 14 aulas nuevas de uso general y de especialidad, y espacios de apoyo. El Proyecto incluye modificaciones y/o mejoras al Edificio de Administración, el Edificio de Educación Física (el Gimnasio Viejo), el Edificio de Economía Doméstica, y el Edificio 1 de Aulas. Una vez que se complete la modernización, la Escuela Preparatoria San Pedro tendrá 74 aulas incluyendo 25 aulas existentes, 35 aulas remodeladas y 14 aulas nuevas.

Además, el Distrito propone la remoción y desecho fuera del sitio de aproximadamente 226 yardas cúbicas de suelo con concentraciones elevadas de arsénico, plomo, y/o pesticidas organoclorados y reemplazo con relleno limpio.

**POSIBLES EFECTOS AMBIENTALES:** El LAUSD ha preparado un Estudio Inicial que describe los posibles efectos ambientales del proyecto propuesto. En base a las conclusiones del Estudio Inicial se ha determinado que un EIR es el nivel apropiado de documentación ambiental. Los factores ambientales que serán analizados en el EIR son: Calidad del Aire, Recursos Culturales, Gases de Efecto Invernadero, Ruido, Seguridad de Peatones y Transporte/Tráfico.

El RAW presenta los hallazgos de las investigaciones de evaluación del sitio realizadas para este Proyecto y esboza el proceso propuesto para la remoción y desecho fuera del sitio del suelo impactado.

**PERIODO DE REVISIÓN PÚBLICA:** El LAUSD hará este NOP y el Estudio Inicial (de acuerdo con la Sección 15082 (b) del Título 14 del Código de Regulaciones de California) disponible al público para su revisión y comentario desde el 29 de septiembre de 2017 hasta el 28 de octubre de 2017. El RAW estará disponible para revisión y comentarios públicos del 19 de septiembre de 2017 hasta el 18 de octubre de 2017.

**RESPUESTAS Y COMENTARIOS:** Por favor indique una persona de contacto para su agencia u organización y envíe sus respuestas y comentarios a:

**Preguntas y Comentarios CEQA**
Los Angeles Unified School District
Office of Environmental Health & Safety
Attention: Will Meade, Environmental Planning Specialist
333 South Beaudry Avenue, 21st Floor
Los Angeles, CA 90017
Email: CEAQ-comments@lausd.net
Por favor incluya “SPHS Comp Mod” en el renglón de tema

**Preguntas y Comentarios RAW**
Los Angeles Unified School District
Office of Environmental Health and Safety
Attention: Dane Robinson, Site Assessment Project Manager
333 South Beaudry Avenue, 21st Floor
Los Angeles, CA 90017
Email: dane.robinson@lausd.net
Teléfono; (213) 241-4122

**REUNIÓN DE DETERMINACIÓN DE ALCANCE:** El LAUSD llevará a cabo una reunión de determinación de alcance el **3 de octubre de 2017**, a las **6:00 PM** en el Auditorio de la Escuela Preparatoria San Pedro ubicada en 1001 W. 15th St., San Pedro, California. Se le anima a asistir y presentar información ambiental que usted cree que se debería abordar en el EIR.

**DISPONIBILIDAD DE DOCUMENTOS:** El Estudio Inicial y el RAW están disponibles para la revisión del público durante el horario regular de oficina en los siguientes lugares.

- LAUSD Office of Environmental Health and Safety, 333 South Beaudry Avenue, 21st Los Angeles, CA 90017 (con cita, llamar al 213.241.3199)
- San Pedro High School Library: 1001 West 15th Street, San Pedro, CA
- San Pedro Regional Branch Library, 931 S. Gaffey Street, San Pedro, CA 90731
- LAUSD Local District South Office, 1208 Magnolia Avenue, Gardena, CA 90247
- Sitio web de LAUSD Office of Environmental Health and Safety:
  - CEQA Estudio Inicial (http://achieve.lausd.net.ceqa)
  - RAW (http://achieve.lausd.net.siteassessment)

# Appendix D
# Health and Safety Plan

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**Illustration:**

Figure 1 – Directions to Nearest Hospital

## 1.0 INTRODUCTION

The Health and Safety guidelines and requirements presented herein are based on a review of available information and an evaluation of potential hazards. This Plan outlines the procedures and equipment required to minimize the potential for chemical and physical injury of field personnel. This Health and Safety Plan (HASP) is also for use with the selected General Contractor's and Environmental Consultant's Injury and Illness Prevention Plans (IIPP). The format and content of this HASP are established to meet the requirements of the California Division of Occupational Safety and Health Regulations; Title 8 of the California Code of Regulations (T8 CCR), Section 5192; Title 29 Code of Federal Regulations, Part 1910.120; and the Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities.

This HASP has been prepared for use in the implementation of the Removal Action Workplan at the San Pedro High School Comprehensive Modernization Project. This HASP shall not be used for work other than that described herein; nor shall it be modified without written approval by the Los Angeles Unified School District (LAUSD) Office of Environmental Health and Safety (OEHS). In addition, this HASP covers only the environmental aspects associated with the removal of surface soils with elevated concentrations of the following constituents of concern (COC): arsenic, lead, and organochlorine pesticides (specifically chlordane and dieldrin).

This HASP should be used as part of an overall Health and Safety Program or IIPP as specified in 8 CCR 5192 and 8 CCR 3203, respectively.

This HASP is intended to assist field personnel in addressing reasonably anticipated hazards and appropriate response measures. However, the Plan has inherent limitations in that it cannot be completely "site-specific." Not all specific hazards, that may impact the project, may not have been identified during the planning stages of this project. If such hazards are encountered, the health and safety protocol contained herein is intended to provide sufficient detail to allow appropriately trained and experienced personnel to obtain the necessary site-specific data. That data can then be used to develop an addendum to this HASP and allow the project activities to go forward.

### 1.1. Project Description

The Removal Action Workplan was prepared for the removal of 27 discrete areas of arsenic, lead, chlordane, and dieldrin-impacted soil totaling approximately 226 cubic yards.

San Pedro High School Comprehensive Modernization Project is located at 1001 W. 15th Street (Site) in the community of San Pedro, city and county of Los Angeles, California. The removal addresses soil conditions in the areas proposed building demolitions, including the Industrial Arts Building, Shop Building, and 10 portable buildings on the western portion of the campus. Approximate geographic coordinates at the entrance to San Pedro High School, adjacent to W. 15th Street, are 33.7303° North latitude and -118.2993° West longitude. Based on the results of the sampling, removal action activities will be performed. The removal action activities will include the excavation and off-site disposal of soils contaminated with the COCs.

### 1.2. Site History

Based on the historical sources review as reported by the Clark Seif Clark, Inc. Phase I Environmental Site Assessment, there were no identified uses of the Site until the construction of several residential structures between 1923 and 1925. Clark Seif Clark stated that the land for the present day campus was acquired by LAUSD beginning in 1934 and continuing until 1969. Former owners of portions of the property include the Board of Water and Power Commissioners of the City of Los Angeles, and the Southern California Gas Company. The high school was constructed sometime after 1935. It is our understanding that a licensed asbestos and lead abatement removal contractor will perform the appropriate demolition activities and ensure proper handling and disposal of asbestos containing materials and lead-based paint debris.

## 2.0 DOCUMENTATION AND RECORD KEEPING

### 2.1 Distribution of the Health and Safety Plan

Before any work begins, a copy of this HASP must be made available to each employee assigned to work at the Site, as well as to an authorized representative of each firm contracted to perform work on the Site. Individuals assigned to work at the Site must acknowledge receipt of the Plan and agree to comply with its provisions in writing.

The following records will be maintained by field personnel:

- A list of personnel qualified to work according to the compliance statement,
- A signature sign-in sheet of all personnel entering and exiting the exclusion zone,
- The HASP with compliance agreements, and
- Exposure monitoring data from the direct reading instruments.

The HASP will remain on the Site. Its location will be known to all personnel at the Site and it will be available for inspection at any time.

## 2.2 Incident reporting

Injuries, exposures, illnesses, safety infractions, and other incidences specified in the IIPP must be reported to the LAUSD within four hours of occurrence, or immediately if a hospitalization or fatality is involved. In the event of an accident or incident, an Incident Investigation form (or similar form from a subcontractor's HASP) will be completed and provided to the LAUSD-OEHS within two working days.

An incident is any event listed below:

- Illness resulting from chemical exposure or unknown causes
- Physical injury, including those that do not require medical attention
- Fire explosions, and flashes resulting from activities performed by LAUSD and/or their subcontractors
- Vehicular accidents occurring on the Site or while traveling to and from sites
- Infractions of safety rules and requirements
- Unexpected chemical exposures (indicated by irritation of eyes, nose, throat, or skin). Work will be suspended to correct the cause of the accident or incident and to modify the HASP as necessary.

# 3.0 HAZARD ASSESSMENT

## 3.1 Chemical Hazards

The following paragraphs provide a brief description of the health hazards associated with the COCs.

### Arsenic

Exposure to inorganic arsenic can cause various health effects, such as irritation of the stomach and intestines, decreased production of red and white blood cells, skin changes, and lung irritation. It is suggested that the uptake of significant amounts of inorganic arsenic can intensify the chances of cancer development, especially the chances of development of skin cancer, lung cancer, liver cancer, and lymphatic cancer. A very high exposure to inorganic arsenic can cause

infertility and miscarriages with women, as well as skin disturbances, declined resistance to infections, heart disruptions, and brain damage with both men and women.

**Lead**

Lead can be absorbed via the ingestion and inhalation pathways. Lead affects practically all systems within the body. Lead at high levels can cause convulsions, coma, and even death. Lower levels of lead can cause adverse health effects on the kidney, central nervous system, cardiovascular system, urinary system, reproductive system, and blood forming cells. Several studies have shown that low levels of lead in the blood can impair mental and physical development. The effects of lead exposure on fetuses and young children can be severe. They include delays in physical and mental development, reduced Intelligence Quotient scores, reduced cognitive ability, decreased reading, spelling, mathematics and linguistic performance, decreased memory, decreased motor skills and coordination, shortened attention span, anxious/depressed behavior, and increased behavioral problems (Child-specific Benchmark change in blood Lead concentration for School Site Risk Assessment, Office of Environmental Health Hazard Assessment 2007). Additional evidence from studies in laboratory animals show that exposure to lead is associated with impaired learning and memory, decreased neurobehavioral development, and other defects similar to those seen in humans.

Fetuses, infants, and children are more vulnerable to lead exposure than adults since lead is more easily absorbed into growing bodies, and the tissues of small children are more sensitive to the damaging effects of lead. Children may have higher exposures since they are more likely to ingest soil, to get lead dust on their hands and then put their fingers or other lead-contaminated objects into their mouths.

The California OEHHA chose Intelligence Quotient as the relevant toxicological indicator for exposure to lead, because it is a widely measured, sensitive marker for neurodevelopmental effects of lead. Based on epidemiological studies, OEHHA developed a 1 microgram of lead per deciliter of blood benchmark for the incremental change in blood lead levels for protection of school children and fetuses (OEHHA, 2007) (see http://www.oehha.ca.gov/public_info/public/kids/pdf/PbHGV041307.pdf). OEHHA estimated that exposure to no more than 80 milligrams per kilogram (mg/kg) lead in soil is protective of a 1 microgram of lead per deciliter of blood increase in blood lead levels in children (http://www.oehha.ca.gov/risk/pdf/LeadCHHSL091709.pdf).

**Chlordane and Dieldrin**

Chlorinated cyclodiene insecticides that are structurally related by the same mechanism of action include dieldrin and chlordane. Like dichlorodiphenyltrichloroethane compounds, the cyclodienes persist in the environment and accumulate in fatty tissues of biologic organisms. The central and peripheral nervous systems are the target organs.

Headache, nausea, vomiting, dizziness, and mild chronic jerking are characteristic symptoms of exposure. Increased exposure can increase the severity of these symptoms and advance to convulsions. Exposure to dieldrin alters the dopamine system and increases neurotoxicity in an animal model of Parkinson's disease (http://www.fasebj.org/cgi/content/full/20/10/1695). The cyclodienes also can produce liver damage.

All three cyclodienes are carcinogens based on liver tumors observed in experimental animals. The non-carcinogenic reference doses, assigned to the cyclodienes, are based on the critical effect of pathologic changes in the liver and increased liver weight of experimental animals.

## 3.2 Physical Hazards

The physical hazards associated with the project include buried utilities, electrical safety, falling and tripping, heat stress, heavy equipment, noise, and traffic hazards.

### 3.2.1 Falling and Tripping

Prevention of slip/trip/fall accidents is largely a measure of routine inspections to assure that dangerous areas are properly marked and/or protected. Due to uneven ground, open excavations, and clutter of work areas with pieces of equipment, trips and falls are likely to occur if adequate preventative measures are not taken. Excavations and trenches must be properly shored and workers must wear proper fall protection equipment, as required, to prevent injury. Field personnel must be aware of their surroundings, pay attention to where they are and what they are doing, and take precautions.

### 3.2.2 Dust

Dust from the Site may contain elevated levels of COCs. To reduce potential dust inhalation, proper control measures will be implemented on the Site. Vehicle traffic will be kept to a minimum and driving speeds on the Site will be slow enough to prevent the generation of fugitive dust. Fugitive dust at the Site during excavation, stockpiling, and loading activities will be as-

sessed through periodic monitoring using direct reading instruments such as aerosol or particulate dust monitors.

## 4.0 PERSONAL PROTECTIVE EQUIPMENT AND MONITORING

Personal Protective Equipment (PPE) is a means of isolating a worker from a potential exposure to a contaminant source. Physically isolating the sources from the surrounding work environment is generally not possible on hazardous waste sites; thus, the worker must be isolated from the work area. Use of PPE places a high degree of responsibility for safety on the worker. Exposure can occur during lapses in standard operating procedures, failure of PPE, removal of PPE at the end of work periods, or use of improper or damaged equipment. However, a properly administered PPE program can offer an effective means of control or act as a supplement or backup to controls at the source of the hazards.

Employees at the Site will be trained on the selection and use of PPE as well as proper maintenance, storage, decontamination, disposal, inspection, donning and doffing procedures. All PPE will conform to California Division of Occupational Safety and Health (DOSH), better known as Cal/OSHA Title 8 CCR requirements.

The following equipment listed below will be available for on-site use as needed.

- Safety goggles or glasses
- Steel toe or rubber safety boots with steel toe
- Hard hat
- Earplugs
- National Institute for Occupational Safety and Health-approved respirators with high efficiency dust cartridges (not expected to be utilized)
- Nitrile or neoprene gloves
- Highly visible construction vests

The PPE specified for the project will be re-evaluated periodically as the amount of information about potential hazards increases. Level D protection is appropriate when no contaminants are present; atmospheric concentrations of contaminants are less than action levels; or work functions preclude splashes, immersion, or potential for unexpected inhalation of any chemicals. It requires street clothes or protective overalls, steel-toed work boots, work gloves, safety glasses, hardhat, and hearing protection (based on noise levels).

PPE levels will be increased when there is a known or suspected presence of dermal hazards, a change in work task that will increase contact with hazardous materials, or at the request of individuals performing the tasks.

Based on field conditions, the PPE may be increased to Level C protection. Level C protection requires, in addition to the Level D PPE, respirators with appropriate filters, and chemical-resistant clothing and gloves. Levels of protection higher than Level C are not anticipated. If levels of protection higher than Level C are necessary, Site-specific safety analysis will be required. Dust and airborne matter will be critical in moving to a higher level of PPE. With proper dust control, it is likely that a Level D PPE can be maintained.

PPE levels may be decreased when there is new information indicating that the situation is less hazardous than originally suspected; a change in Site conditions that decrease the hazard; or a change in work that will reduce contact with hazardous materials. The PPE clothing material selected will depend on the chemicals present and the type of work to be accomplished. The materials selected will resist the items listed below where necessary

- Permeation — the process by which a chemical dissolves in and/or moves through a protective clothing material on a molecular level.

- Degradation — the loss of or change in the fabric's chemical resistance.

- Penetration — the movement of chemicals through zippers, stitched seams, or imperfections in a material.

## 4.1 Dust monitoring

Dust monitoring will be conducted and measured total dust levels will be compared to Site action levels. Site action levels are based on protection of the workers implementing the Removal Action (RA), and on protection of the community surrounding the site.

### Dust Action Level and Monitoring for Workers

Action levels for worker protection are based on the Cal/OSHA permissible exposure limits (PEL) for each COC identified in soil at the Project Site (CCR Title 8, Section 5155). The PEL for total dust (particulates not otherwise regulated) is 10 milligram per cubic meter ($mg/m^3$). Therefore, assuming that total dust is present at 10 $mg/m^3$ in air and contains the maximum concentration of each COC identified at the site, and then Site worker exposure levels can be calculated as follows:

Exposure Level ($mg/m^3$) = soil concentration (mg/kg) x total dust PEL ($mg/m^3$) / 1,000,000 (mg/kg)

The dust exposure levels for each COC are as follows:

Arsenic: 0.00059 $mg/m^3$ = 59 mg/kg x 10 $mg/m^3$/ 1,000,000 mg/kg
Lead: 0.0025 $mg/m^3$ = 250 mg/kg x 10 $mg/m^3$/ 1,000,000 mg/kg
Chlordane: 0.000017 $mg/m^3$ = 1.7 mg/kg x 10 $mg/m^3$/ 1,000,000 mg/kg
Dieldrin: 0.00000076 $mg/m^3$ = 0.076 mg/kg x 1 $mg/m^3$ / 1,000,000 mg/kg

The following table shows the calculated maximum dust exposure levels compared with the Cal/OSHA PELs. The dust exposure levels are less than PELs.

**Dust Exposure Level Comparison**

| Chemical of Concern | Calculated Dust Exposure Level[(a)] ($mg/m^3$) | Cal/OSHA PEL ($mg/m^3$) |
|---|---|---|
| Arsenic | 0.00059 | 0.01 |
| Lead | 0.0025 | 0.05 |
| Chlordane | 0.000017 | 0.5 |
| Dieldrin | 0.00000076 | 0.25 |
| Total Dust | -- | 10 |

*Notes:*

| | | |
|---|---|---|
| PEL | = | permissible exposure limit (eight-hour, time-weighted average) |
| (a) | = | Based on 10 $mg/m^3$ total dust |
| Cal/OSHA PEL | = | California Division of Occupational Safety and Health Permissible Exposure Limit |
| $mg/m^3$ | = | Milligram Per Cubic Meter |

The dust action level for workers using equipment in the removal area will be set at 1 $mg/m^3$ steady for five minutes. This concentration is less than the PEL, but is considered protective of workers and will serve to prevent dust levels from exceeding action levels for the fence line monitoring. The Environmental Consultant will stop work of the action level is exceeded until appropriate dust suppression measures are implemented.

Measurement of airborne dust levels at the excavation locations will be conducted by the Environmental Consultant using real-time, data-logging aerosol monitors (i.e., Personal DataRam or PDM-3 Miniram aerosol monitor manufactured by MIE). These instruments will be calibrated daily. The monitoring information will be posted daily and discussed with the Site workers. The monitors will be set to log dust levels over 5 minute periods and will be visually read every 15 minutes.

**Dust Action Level and Monitoring for Fence Line**

The action level for fence line monitoring and protection of the surrounding community are based on South Coast Air Quality Management District Rules 403 and 1466. The Rule 1466 action level for dust, as particulate matter of 10 microns in diameter or smaller ($PM_{10}$), is 25 micrograms per cubic meter of air over a two-hour period, and will be used for the RA. The General Contractor shall provide a supervisor that has been issued a valid Certificate of Completion for the South Coast Air Quality Management District Fugitive Dust Control Class.

Continuous direct reading near real-time ambient monitoring of $PM_{10}$ will be conducted to confirm that concentrations remain below the action level during any earth moving or vehicle movement activities on the Site. The ambient $PM_{10}$ monitoring will be conducted in accordance with the following:

- Use two or more of the following particulate meters: TSI DustTrak II Aerosol Monitor 8530, E-BAM Particulate Monitor, Thermo Scientific Model ADR1500, or other approved instrument.

- Monitor ambient weather conditions including wind speed and direction using handheld meters, an onsite station, and/or real-time internet weather locations. Record the wind observations and use for the selection of dust monitoring locations.

- Place one upwind monitor where dust concentrations are not influenced with the RA activities.

- Place one downwind monitor in the seasonal prevailing wind direction downwind for the earth moving activities, and as near as possible to the property line.

- Collect near real-time data using data logging features every 10 minutes or less.

- Calculate the $PM_{10}$ concentration averaged over two hours, where the concentration is the absolute difference between upwind and downwind monitors.

- Retain all dust monitoring records at the Site.

If the ambient dust concentration limit is exceeded, the Environmental Consultant will direct the General Contractor to immediately stop all earth-moving activities and apply dust suppressant to all fugitive dust sources or employ necessary dust control measures until the $PM_{10}$ concentration drops below 25 micrograms per cubic meter of air, averaged over 30 minutes.

## 5.0 DECONTAMINATION PROCEDURES

Decontamination of equipment and personnel is necessary to confine the contaminants to the exclusion zone. Prior to leaving the exclusion zone, all major equipment, tools, and materials will be dry brushed to remove encrusted dirt. A decontamination station and procedure will be established by the General Contractor and Environmental Consultant, in coordination with LAUSD-OEHS, during Site mobilization. The procedure will consist of a liquid soap and water wash for hands, face, and hard hats. Prior to eating or drinking, personnel will wash their hands with soap and water. The contaminated soil should be removed from skin using a mild detergent and water. Hot water is more effective than cold water, and Liquinox soap is more effective than hand soap.

An effective decontamination area can be established by spreading a waterproof ground sheet and using several large 30-gallon tubs for personal decontamination. The criteria used in selecting an area are listed below.

- Ease of containment of contaminated materials
- Access to water

- Accessibility to on-site personnel

The area will be cordoned off in a similar manner to the exclusion zone. The areas of decontamination will be identified and removal of the indicated protective equipment in the specified order will be completed in this area.

### 5.1 Equipment Decontamination

All major reusable equipment and other tools used for work will be decontaminated prior to leaving the work areas. Cleaning will normally consist of scrubbing to remove encrusted soil, followed by a soap and water wash and potable water rinse. Containers of detergent solutions for cleaning tools, boots, and gloves will be available in the exclusion zone. Decontamination of equipment will be performed at a designated area within the contamination zone, determined during the pre-construction job walk and meeting.

A steam cleaner is a convenient source of hot water for personnel and protective equipment cleaning. If a steam cleaner is available, sampling equipment, vehicle undercarriages, and tires encrusted with contaminated soil should be steam cleaned.

Rinsate and residual soils generated during decontamination will not be allowed to run off from the Site, and will be contained in appropriately sized washtubs and transferred to 55-gallon drums for temporary storage and disposal.

## 6.0 EMERGENCY NOTIFICATION

### 6.1 Emergency Notification List

The Site Safety Manager will be trained to render basic first aid. Every injury will be reported and entered in the field log. In the event of fire, explosion, accident, or injury, the Project Manager (PM) or other Site personnel will contact the appropriate emergency response group. The emergency telephone numbers listed below are for obtaining emergency services at the Site.

| Contact | Name | Contact Information |
|---|---|---|
| General Contractor Project Manager | To be determined | To be determined |
| Environmental Consultant Project Manager | To be determined | To be determined |
| LAUSD-OEHS Project Manager | Dane Robinson | (213) 241-4122 |

| | | |
|---|---|---|
| LAUSD Complex Project Manager | Jay Nager | (310) 808-15100 |
| LAUSD Police | Dispatch | (213) 625-6631 |
| Site Health and Safety Officer | To be determined | To be determined |
| Hospital | Providence Little Company of Mary Medical Center San Pedro<br>1300 W 7th Street<br>San Pedro, California 90732 | (310) 832-3311 |

Notes:
LAUSD = Los Angeles Unified School District
OEHS = Office of Environmental Health and Safety

This hospital is estimated to be 0.9 mile, or four minutes, away from the Site. Please see attached driving directions to the hospital from the Site (Figure 1).

### 6.2 Emergency Procedures

The following emergency equipment will be stored on Site at all times: fire extinguishers, first aid kits, cellular phones, and eye wash capable of 15 minutes of flush.

#### 6.2.1 Situation Assessment

In the event of an unexpected incident or emergency, the situation assessment will include gathering and processing information on the type of incident, the victims, if any, the chemicals of concern, the potential for fire, explosion, or release of hazardous substances, potential for danger to off-Site population or environment, the equipment and personnel needed for victim rescue and hazard mitigation, and the hazards involved in rescue and response.

#### 6.2.2 Rescue/Action Steps

Based on the available information, the type of response required will be identified and the necessary steps implemented. Some actions may be done concurrently. No one will attempt emergency response or rescue until backup personnel and evacuation routes have been identified.

In the event there is a hazardous materials spill, the contractor will immediately stop work activities. Try to stop the source of the spill, contain the spill if possible, and lay out absorbent materials. Notify the PM immediately, and call 911 as needed.

In the case of localized small fires not posing risks to life or property, Site personnel may use fire extinguishers or other suitable material (earth, blanket, or water) to bring the situation un-

der control. In all other cases, local fire departments will be called immediately to help control fire. The immediate area will be evacuated in the case of an uncontrolled fire causing the release of potentially toxic gases. Local fire authorities will be notified immediately of the materials involved.

In the event an emergency cannot be controlled by Site personnel, the following outside agencies will be called, as necessary:

- Local fire/rescue: 911
- Local ambulance: 911
- Police: 911
- Hospital/emergency facility: 911 or (619) 522-3600
- Chemical Emergency Response/Chemical Transportation Emergency Cente (CHEMTREC): (800) 424-9300

### 6.2.3 Follow up

Before normal Site activities are resumed, personnel must be fully prepared and equipped to handle another emergency. The PM will notify appropriate agencies as required. Equipment and supplies will be restocked, and damaged equipment will be replaced or repaired. The PM will review and revise the HASP as needed, based on Site conditions and information obtained from the emergency response.

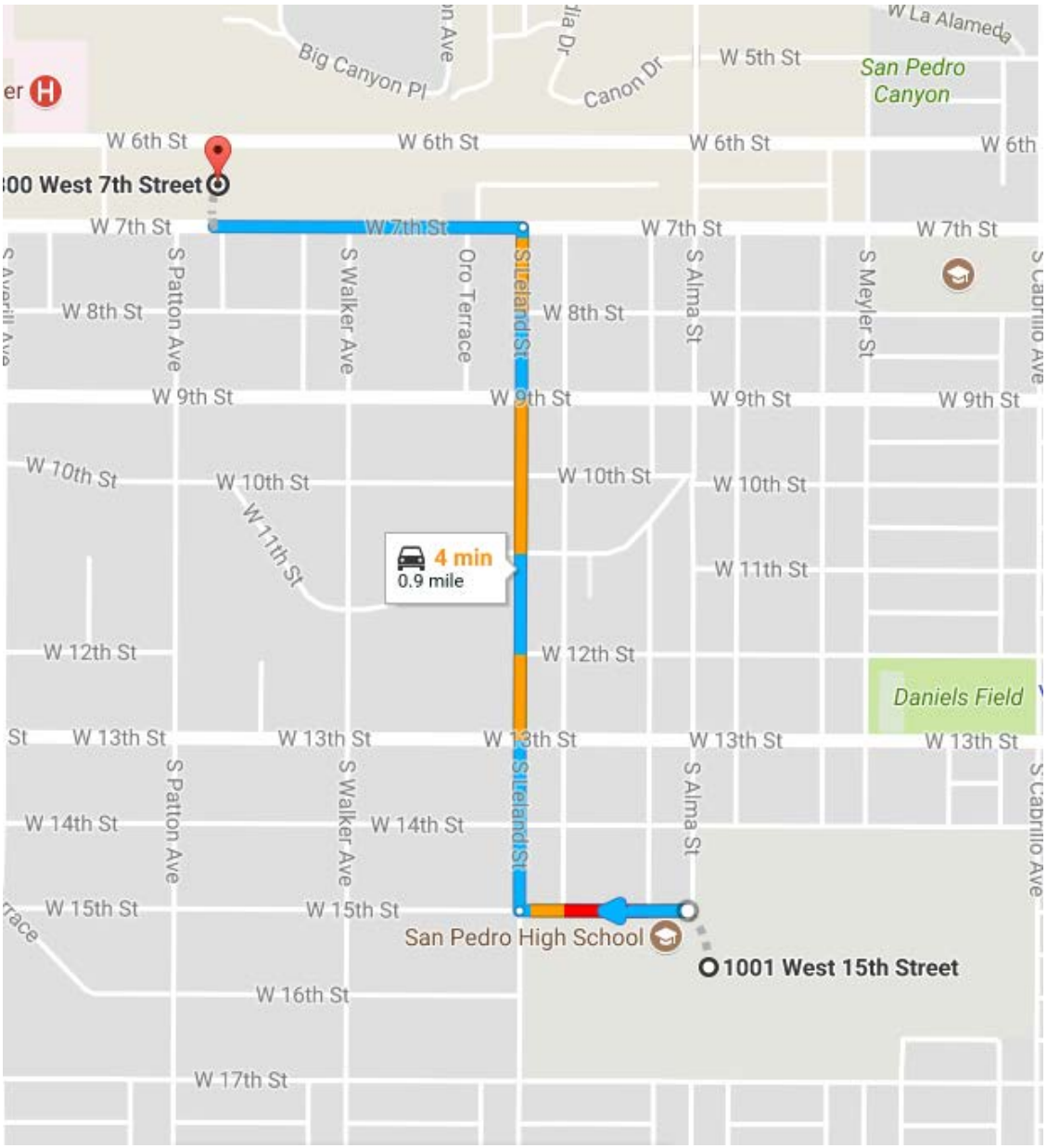
**ATTACHMENT 1: SAFETY PLAN COMPLIANCE AGREEMENT**

All field personnel are required to read this HASP and, by signing below, acknowledge that they are 40-hour OSHA Hazardous Waste Operators and Emergency Response-trained with current annual refresher updates and that they are familiar with the HASP provisions.

I have received a copy of the HASP for this project. I have reviewed the Plan, understand it, and agree to comply with all of its provisions. I understand that I could be prohibited from working on the project for violating any of the health and safety requirements specified in the Plan.

| Title | Name/Company Name (Printed) | Signature and Date |
|---|---|---|
| Project Manager | | |
| Site Safety Manager | | |
| Field Team Leader | | |
| Other Site Personnel | | |

**FIGURE 1 — HOSPITAL ROUTE MAP**




- Starting from San Pedro High School, 1001 W. 15th Street, San Pedro, California 90731
- Head west on W 15th Street toward S Leland Street
- Turn right onto S Leland Street
- Turn left onto W 7th Street
- Arrive at Providence Little Company of Mary Medical Center San Pedro, 1300 W 7th Street, San Pedro, California 90732

# Appendix E
# Quality Assurance Project Plan

## QUALITY ASSURANCE PROJECT PLAN

This appendix describes the quality assurance and quality control (QA/QC) plan, or quality assurance project plan (QAPP), which will provide an appropriate level of assurance regarding the reliability and usability of the data generated during the confirmation sampling for the Removal Action Workplan (RAW). This section sets forth the policies, procedures, and activities for the identification and documentation of the quality of data generated during the performance of the RAW. The Environmental Consultant for the RAW is responsible for confirmation sampling at the excavation areas and is therefore responsible for the QAPP.

### SECTION 1 Project Task and Problem Definition

The overall Removal Action Objective of this RAW is to remove soil that contains the constituents of concern at concentrations above the site-specific cleanup goals (SSCG). The SSCG established for the constituents of concern (COC) are as follows: arsenic at 12 milligrams per kilogram (mg/kg); lead at 80 mg/kg; chlordane at 0.44 mg/kg; and dieldrin at 0.034 mg/kg. The Los Angeles Unified School District, Office of Environmental Health and Safety has elected to use soil screening values as the SSCGs for the San Pedro High School modernization project.

### SECTION 2 Data Quality Objectives (DQOs)

Soil analytical data will be collected during the confirmation sampling. Data collected will be evaluated to determine whether the COCs remain in soil at concentrations that exceed the SSCGs. The Data Quality Objective is that the data obtained during the confirmation sampling are usable for evaluating subsurface impacts and confirming the removal of impacted soil.

Compliance with the Data Quality Objective will be met by evaluating the following Acceptance Criteria:

- Precision
- Accuracy
- Representativeness
- Completeness
- Comparability
- Method Detection Limits (MDL)

### SECTION 3 Acceptance Criteria

Specific acceptance criteria for the data quality indicators (DQI) of precision, accuracy, representativeness, completeness, comparability, and MDLs have been selected. These DQIs and their corresponding acceptance criteria are discussed in turn below.

**Precision**

Precision measures the reproducibility of repetitive measurements. It is strictly defined as the degree of mutual agreement among independent measurements as the result of repeated application of the sample process under similar conditions.

Analytical precision is a measurement of the variability associated with duplicate or replicate analyses of the same sample in the laboratory, and is determined by analysis of laboratory quality control samples, such as duplicate control samples or Laboratory Control Sample Duplicates, matrix spike duplicates, or sample duplicates. If the recoveries of analytes in the specified control samples are comparable within established control limits, then precision is within limits.

Total precision is a measurement of the variability associated with the entire sampling and analytical process. It is determined by analysis of duplicate or replicate field samples, and measures variability introduced by both the laboratory and field operations. Field duplicate samples are analyzed to assess field and analytical precision.

Duplicate results are assessed using the relative percent difference (RPD) between duplicate measurements. If the RPD for laboratory quality control samples exceed 30 percent, data will be qualified. If the RPD between primary and duplicate field samples exceed 50 percent, data will be qualified. The RPD will be calculated as follows:

$$\%RPD = \frac{200 \times (X_2 - X_1)}{X_2 + X_1}$$

Where $X_2$ is the larger of the two observed values and $X_1$ is the smaller of the two observed values.

**Accuracy**

Accuracy is a statistical measurement of correctness and includes components of random error (variability due to imprecision) and systematic error. It reflects the total error associated with a measurement. A measurement is accurate when the value reported does not differ from the true value or known concentration of the spike or standard.

Accuracy of laboratory analyses will be assessed by Laboratory Control Samples, surrogate standards, matrix spikes, and initial and continuing calibrations or instruments. Laboratory accuracy is expressed as the percent recovery (%R). Accuracy limits are statistically generated

by the laboratory, required by specified Environmental Protection Agency methods, or set forth in guidance documents prepared by various organizations. If the %R is determined to be outside of acceptance criteria, associated data will be qualified. The calculation of %R is provided below:

$$\%R = \frac{100 \times (X_s - X)}{T}$$

Where $X_s$ is the measured value of the spiked sample, X is the measured value of the unspiked sample, and T is the true value of the spike solution added.

Field accuracy for soil samples will be assessed through the analysis of equipment blanks at a rate of one per day. Analysis of blanks will monitor errors associated with the sampling process including equipment decontamination procedures (in the case of equipment blanks) and sample handling. The acceptance criteria for field equipment blanks are that all values are less than the reporting limit for each target constituent. If contamination is reported in the field equipment blanks, data will be qualified.

**Representativeness**

Representativeness is the degree to which data accurately and precisely represents a characteristic, an environmental condition, or a population. It relates both to the area of interest and to the method of taking the individual sample. Representativeness of data collection is addressed by careful preparation of sampling and analysis programs, including use of procedures to avoid false negatives and false positives. The RAW addresses representativeness by specifying sufficient and proper numbers and locations of samples, incorporating appropriate sampling methodologies, specifying and performing proper sample collection and preservation techniques, performing required decontamination procedures, selecting appropriate laboratory methods to prepare and analyze soil and groundwater samples, and establishing proper field and laboratory QA/QC procedures for the parameters of interest.

**Completeness**

Completeness is the amount of valid data obtained compared to the amount that was expected under ideal conditions. The number of valid results divided by the number of possible results, expressed as a percentage, determines the completeness of the data set. The acceptance criteria for completeness are to obtain valid results for at least 80 percent of the planned analytical results. The formula for calculation of completeness is:

$$\%\ Completeness = \frac{100\ x\ number\ of\ valid\ results}{number\ of\ expected\ results}$$

### Comparability

Comparability is an expression of confidence with which one data set can be compared to another. This QA/QC plan addresses comparability by specifying laboratory methods that are consistent with the current standards of practice as approved by the EPA, which will allow the data to be evaluated for trends or changes (in space or time) at the Site. In addition, comparability is also addressed by specifying that associated standard units of measurement will be used for data reports.

### Method Detection Limits

MDLs should be below the action levels whenever possible, or else there is no way to know whether non-detect results are above or below the action level. For this RAW, the Los Angeles Unified School District wishes to know whether COCs are present in soil at concentrations that exceed health-screening values. The laboratory reporting limits for the COCs should be confirmed by the selected Environmental Consultant to confirm they are sufficiently low to make the comparison with SSCGs. See table 3-1 and 3-2 for a list comparing laboratory reporting limits with action levels.

**TABLE 1: CONTAMINANTS OF CONCERN, LABORATORY AND ACTION LEVELS**
**MATRIX = SOIL**

| Analytical Parameter (Contaminants of Concern) | Laboratory Reporting Limits | Action Levels: Site-Specific Cleanup Goal |
|---|---|---|
| Arsenic by EPA 6020B (mg/kg) | | |
| Arsenic | *TBD* | 12 |
| Lead by EPA 6010B (mg/kg) | | |
| Lead | *TBD* | 80 |
| Organochlorine Pesticides by EPA 8081A (mg/kg) | | |
| Chlordane | *TBD* | 0.44 |
| Dieldrin | *TBD* | 0.034 |

*Notes:*

mg/kg = Milligrams Per Kilogram

TBD = To Be Determined by the Environmental Consultant and selected laboratory, but must be lower than Site-Specific Cleanup Goals.

EPA = Environmental Protection Agency

## SECTION 4 DATA Review and Validation

The Environmental Consultant will review the laboratory reports and prepare a data-review checklist. The laboratory reports will be reviewed for the following:

- Data Completeness
- Chain of Custody
- Holding Times
- Sample Preservation
- Blanks
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Matrix Spike/Matrix Spike Duplicate
- Surrogates/Internal Standards (as applicable);
- Field Quality Control Samples

Data that does not meet the acceptance criteria set forth in Section 1.3 will be qualified, and the data review checklist will be included in the Removal Action Completion Report (RACR). Data qualifications flags will indicate whether results are considered anomalous, estimated, or rejected. Only rejected data are considered unusable for decision-making purposes; however, other qualified data may require further verification, such as reviewing the laboratory's raw data.

Detection limits associated with the analytical data will be reviewed before eliminating chemicals from consideration because they were not detected. In some cases, the detection limit for a chemical may be greater than the corresponding standards, criteria, or concentrations derived from toxicity reference values; therefore, the chemical may be present at levels greater than these corresponding reference concentrations, which may result in undetected risk. In other cases, a particular detection limit may be significantly higher than positively detected values in other samples in a data set. After considering these cases and any other reasonable reasons why contaminants may not have been detected, chemicals that have not been detected in any medium will be eliminated if appropriate. If information exists to indicate that the chemicals are present, they will not be eliminated.

For analytical results, various qualifiers pertaining to the quality of the data may be assigned to certain analytical results by either the laboratory conducting the analysis or by persons conducting data review as discussed above. For example, some results may be marked as estimated if the concentration is below the verifiable or contract-required detection limit but may be detected at a lower value by the instrument. All qualified results will be reviewed prior to being compared to the pertinent SSCG. Any data discrepancies will be reviewed and explained in the RACR. If enough data are rejected as unusable for decision-making purposes, such that the DQI for completeness is not achieved, then corrective actions such as reanalysis or resampling will be recommended.

## SECTION 5 Data Management

The Environmental Consultant Project Manager will review the field notebooks, field forms (such as boring logs), and chain-of-custody forms to evaluate completeness of the field records, appropriateness of the field methods employed, and whether the chain of custody forms were completed correctly. When the laboratory reports are submitted, the Environmental Consultant data reviewer will prepare a data review checklist as set forth in Section 1.4. Subsequently, the data will be entered onto tables to be included in the Phase II report, including any necessary qualification flags identified in the data review checklist. An independent person (i.e., not the person who prepared the data tables) will check every entry on the data tables for completeness and correctness. Similarly, figures (including boring logs) to be published in the RACR will be checked by an independent person to verify that all data on the figures are correct. All project documentation, including field records, laboratory reports, data review memoranda, and data tables, will be retained in Environmental Consultant's project files and made available to other parties as needed and appropriate.

## SECTION 6 Assessment Oversight

Ultimate responsibility for implementation of this RAW, including the QA/QC plan, will rest with the Environmental Consultant Project Manager. The Environmental Consultant Quality Assurance Manager will perform at least one audit of field procedures, and will review the field notebooks, other field forms, COCs, and laboratory reports for compliance with the QAPP.

# Appendix F
# Transportation Plan

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## SECTION 1 INTRODUCTION

This Transportation Plan describes waste transportation activities associated with the soil excavation and soil handling activities at the Removal Action (RA) from the Los Angeles Unified School District (LAUSD) San Pedro High School Comprehensive Modernization Project (CMP). The purpose of the Transportation Plan is to specify protocols to minimize the potential health, safety, and environmental risks associated with the transportation of soil to the appropriate treatment and disposal facilities. The loading and transportation of waste materials will be conducted by the General Contractor and/or its subcontractor at the time of the CMP construction.

The San Pedro High School campus is located at 1001 W. 15th Street, San Pedro, California, 90731. The campus consists of an irregularly-shaped parcel that is bordered by W. 15th Street and W. 14th Street to the north, Dana Middle School (1501 S. Cabrillo Avenue) to the east, W. 17th Street to the south, and S. Leland Street to the west. The campus is located in the community of San Pedro, within the city and county of Los Angeles.

The overall Removal Action Objective of the Removal Action Workplan (RAW) is to remove soil that contains the constituents of concern at concentrations above the site-specific cleanup goals. Waste soil will be segregated and placed in stockpiles in accordance with the classifications provided below.

- Non-hazardous arsenic, lead, and organochlorine pesticide impacted soil.
- California hazardous (non-Resource Conservation and Recovery Act [RCRA]) lead-impacted soil.

Soil samples to characterize the stockpiles will be collected based on the actual volumes of soil generated, and in accordance with landfill acceptance criteria. The classifications may be changed to reflect the stockpile sample analytical results.

## SECTION 2 DOCUMENTATION AND RECORD KEEPING

This Transportation Plan supports proposed soil removal activities to be implemented by the General Contractor with oversight from the Environmental Consultant. The parties providing these roles have not been defined as of the date of this RAW. The Plan will ensure that the soil suspected to be classified a California-hazardous waste, is segregated from soil that is classified as a non-hazardous waste, and to track the segregated waste from existing stockpiles to the landfill.

An estimated soil volume of 226 cubic yard will be loaded from existing stockpiles and transported for off-site disposal. On-site loading will be dependent on landfill operating hours to make sure that the trucks can arrive before closing time.

The General Contractor will be responsible for profiling, manifesting, placement of truck tarps, and transporting the impacted soil to the appropriate disposal facility. Waste characterization, soil loading, dust suppression, truck decontamination, and traffic control (if necessary) will also be performed by the General Contractor. The soil to be removed contains elevated concentrations of metals (specifically arsenic and lead) and organochlorine pesticides (specifically chlordane and dieldrin).

## SECTION 3 HEALTH & SAFETY

A Site-Specific Health and Safety Plan has been prepared for on-site personnel who may be exposed to contaminated soil. The Health and Safety Plan is included as a separate appendix to the RAW.

## SECTION 4 DRIVERS

The General Contractor and their designated waste transporter will provide the necessary trucks to the project site each operating day for the duration of the transportation phase to complete the offsite removal and disposal of impacted soils. Waste transportation on the project is anticipated to occur on business days between the hours of approximately 7:00 AM to 5:00 PM. It is anticipated that trucks will be onsite for up to one hour for staging/loading and require up to one hour for offloading at the disposal facility.

## SECTION 5 TRAINING

The waste transporter will ensure that all drivers staffed for this project have all of the necessary Department of Transportation training, licenses, and permits to complete the transportation phase of the project. Documentation will be provided by the waste transporters to LAUSD-Office of Environmental Health and Safety (OEHS) and the Environmental Consultant indicating that the truck drivers for the project have been recently tested for road and dumping procedures.

## SECTION 6 SOIL LOADING

Waste soil will be loaded onto transport trailers using a loader or backhoe. During the loading activities, a water mist will be used to suppress dust. A designated, full-time flag person will direct truck traffic during entry and exit at the Site. Entry and exit points will be delineated to warn pedestrians of the truck traffic. A truck log will be maintained and will include the trailer number and company affiliation, the date and time that the truck leaves the Site, the approximate

volume of each load, and the hazardous or non-hazardous waste manifest number. In addition, materials will leave the Site with the appropriate paperwork (e.g., Bill of Lading or Uniform Hazardous Waste Manifest).

Heavy equipment operation will be restricted to the hours of 7:00 AM to 5:00 PM on weekdays and 8:00 AM to 5:00 PM on weekends. To the extent possible, truck traffic will be timed to avoid rush hour, with trucks scheduled to leave the Site between the hours of 8:00 AM and 3:00 PM.

## SECTION 7 DESTINATION OF SOIL

The results of characterization of the soil stockpiles will indicate whether the stockpiled soils will be disposed of as non-hazardous, California non-RCRA hazardous, or RCRA hazardous. Samples collected for the Preliminary Environmental Assessment-Equivalent did not indicate RCRA hazardous waste concentrations. Based on the characterization results, a soil disposal facility will be selected by the General Contractor and submitted to LAUSD-OEHS for approval.

If the soil is categorized as non-hazardous waste, the following are examples of Class III facilities that may be used:

Chiquita Canyon Landfill
29201 Henry Mayo Drive
Castaic, California 91384
(661) 257-3655

Waste Management — Simi Valley Landfill
2801 N. Madera Road
Simi Valley, California 93065
(805) 579-7267

Soil samples analyses may indicate that the soil is California non-RCRA hazardous. The following are example facilities that may be used:

South Yuma County Landfill
19536 S. Avenue IE
Yuma, Arizona 85366
(928) 341-9300
EPA Id. No. AZR000506980

Clean Harbors — Buttonwillow
2500 W. Lokern Road
Buttonwillow, California 93206
(661) 762-6200
EPA Id. No. CAD980675276

## SECTION 8 DRY TRUCK DECONTAMINATION

Transportation trailers or trucks will be manually dry brushed in the truck loading areas prior to leaving the work area, or as directed by the onsite personnel, to remove loose soil . As necessary, exterior contamination will be removed by dry brushing until bulk, visible contamination is removed. After the soil is loaded into the transport trucks, the soil will be covered with a tarp to ensure that no soil will spill from the trucks during transport to the disposal facility.

## SECTION 9 DEPARTMENT OF TRANSPORTATION CERTIFICATIONS

The waste transporter will maintain all Department of Transportation certifications. The waste transporter will transport waste soils in accordance with all local, county, state and federal regulations (49 Code of Federal Regulations Parts 100 — 177).

## SECTION 10 MANIFESTING

The General Contractor or their waste transporter will provide Uniform Hazardous Waste Manifests. If necessary, LAUSD-OEHS will use Environmental Protection Agency identification number 982022642 for the hazardous waste from the Site, and its designee will sign all manifests and/or bills of lading. For non-hazardous waste transport and disposal, a non-hazardous waste manifest, bill of lading, or generator-approved equivalent will be used. Each load transported from the Site will be manifested.

Each truck entering the disposal facility will have a manifest signed by landfill personnel and the appropriate copies archived at the facility. The generator's copies will be forwarded to the waste transporter with certified weight tickets and invoices.

All appropriate records that document transportation of the waste will be maintained onsite and provided to LAUSD, and the Environmental Consultant, including the following: manifests, bills of lading, weight tickets, waste analyses, or profile sheets, certifications of final treatment/disposal signed by the responsible disposal facility official, and land disposal notifications.

## SECTION 11 TRAFFIC CONTROL

Due to the location of the Site in a low-traffic region, traffic control will be used, if necessary, at the ingress/egress and staging areas. Traffic control will consist of personnel with hand-held signs indicating slow/stop, and cones and delineators, as necessary, to route trucks through the staging and loading area, and then offsite. Trucks will be coordinated and routed in a manner that minimizes truck traffic on nearby residential streets. Track-out of dirt onto roadways will be minimized by implementing effective decontamination vehicle procedures.

## SECTION 12 TRUCK TRANSPORTATION ROUTES

The General Contractor will instruct all drivers on the specific haul routes and alternate routes prior to commencing transport activities at the site. These will be established for other activities associated with the campus CMP. Before leaving the Site, each truck driver will be instructed to notify the Environmental Consultant. Each truck driver will be provided with the cellular phone number for the Environmental Consultant. It will be the responsibility of the Environmental Consultant to notify LAUSD-OEHS of any unforeseen incidents. In addition, there are call boxes located along the freeways that will be traveled to reach the disposal facilities. These call boxes are situated at roadside locations along the truck route to be used to report roadside incidents. Each truck driver will be instructed to report any roadside emergency using the call box system or cellular phone. In the event of an accidental release, the Highway Patrol and local emergency response personnel will be contacted.